

zenith



(5183)

SERVICE MANUAL

Model Series:

Product Type: Consumer Flat Screen TV
Chassis: MC-996a
Manual Series: CM151
Manual Part #: 923-03423
Model Line: B
Product Year: 1999

IQB27FW

CONTENTS

General Info/Remotes	1
Installer's Menu	2
Servicing/Troubleshooting	3
Module/Model Part Lists	4
Exploded Views	5
PCB Layouts/Schematics	6

Published by Technical Publications
Zenith Electronics Corporation
201 James Record Road - Huntsville, Alabama 35824-1513

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Printed in U.S.A.
MC CCI 4.3k

PRODUCT SAFETY SERVICING GUIDELINES FOR AUDIO-VIDEO PRODUCTS

IMPORTANT SAFETY NOTICE

This manual was prepared for use only by properly trained audio-visual service technicians.

When servicing this product, under no circumstances should the original design be modified or altered without permission from Zenith Electronics Corporation. All components should be replaced only with types identical to those in the original circuit and their physical location, wiring and lead dress must conform to original layout upon completion of repairs.

Special components are also used to prevent x-radiation, shock and fire hazard. These components are indicated by the letter "X" included in their component designators and are required to maintain safe performance. No deviations are allowed without prior approval by Zenith Electronics Corporation.

Circuit diagrams may occasionally differ from the actual circuit used. This way, implementation of the latest safety and performance improvement changes into the set is not delayed until the new service literature is printed.

CAUTION: Do not attempt to modify this product in any way. Never perform customized installations without manufacturer's approval. Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury.

Service work should be performed only after you are thoroughly familiar with these safety checks and servicing guidelines.

GRAPHIC SYMBOLS



The exclamation point within an equilateral triangle is intended to alert the service personnel to important safety information in the service literature.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the service personnel to the presence of noninsulated "dangerous voltage" that may be of sufficient magnitude to constitute a risk of electric shock.



The pictorial representation of a fuse and its rating within an equilateral triangle is intended to convey to the service personnel the following fuse replacement caution notice:

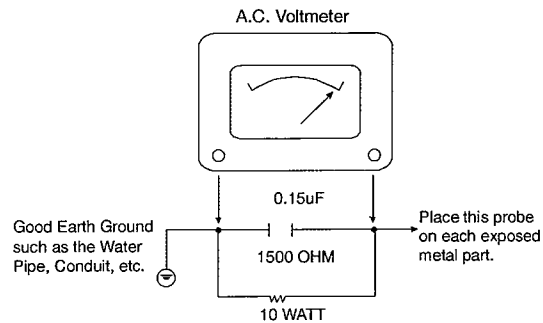
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ALL FUSES WITH THE SAME TYPE AND RATING AS MARKED NEAR EACH FUSE.

SERVICE INFORMATION

While servicing, use an isolation transformer for protection from AC line shock. After the original service problem has been corrected, make a check of the following:

FIRE AND SHOCK HAZARD

1. Be sure that all components are positioned to avoid a possibility of adjacent component shorts. This is especially important on items transported to and from the repair shop.
2. Verify that all protective devices such as insulators, barriers, covers, shields, strain reliefs, power supply cords, and other hardware have been reinstalled per the original design. Be sure that the safety purpose of the polarized line plug has not been defeated.
3. Soldering must be inspected to discover possible cold solder joints, solder splashes, or sharp solder points. Be certain to remove all loose foreign particles.
4. Check for physical evidence of damage or deterioration to parts and components, for frayed leads or damaged insulation (including the AC cord), and replace if necessary.
5. No lead or component should touch a receiving tube or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces must be avoided.
6. After reassembly of the set, always perform an AC leakage test on all exposed metallic parts of the cabinet (the channel selector knobs, antenna terminals, handle and screws) to be sure that set is safe to operate without danger of electrical shock. **DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST.** Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner: Connect a 1500 ohm, 10 watt resistor, paralleled by a .15 mfd 150V AC type capacitor between a known good earth ground water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and .15 mfd capacitor. Reverse the AC plug by using a non-polarized adaptor and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 volts RMS. This corresponds to 0.5 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



X-RADIATION

1. Be sure procedures and instructions to all service personnel cover the subject of x-radiation. The only potential source of x-rays in current TV receivers is the picture tube. However, this tube does not emit x-rays when the HV is at the factory-specified level. The proper value is given in the applicable schematic. Operation at higher voltages may cause a failure of the picture tube or high-voltage supply and, under certain circumstances may produce radiation in excess of desirable levels.
2. Only factory-specified CRT anode connectors must be used.
3. It is essential that the service personnel have available an accurate and reliable high-voltage meter.
4. When the high-voltage circuitry is operating properly, there is no possibility of an x-radiation problem. Every time a color chassis is serviced, the brightness should be run up and down while monitoring the high voltage with a meter, to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. When troubleshooting and making test measurements in a product with a problem of excessively high voltage, avoid being unnecessarily close to the picture tube and the high voltage power supply. Do not operate the product longer than necessary to locate the cause of excessive voltage.
6. Refer to HV, B+, and shutdown adjustment procedures described in the appropriate schematics and diagrams (where used).

IMPLOSION

1. All direct view picture tubes are equipped with an integral implosion protection system; take care to avoid damage during installation.
2. Use only the recommended factory replacement tubes.

TIPS ON PROPER INSTALLATION

1. Never install any receiver in a closed-in recess, cubbyhole, or closely fitting shelf space over, or close to, a heat duct, or in the path of heated air flow.
2. Avoid conditions of high humidity such as: outdoor patio installations where dew is a factor, near steam radiators where steam leakage is a factor, etc.
3. Avoid placement where draperies may obstruct venting. The customer should also avoid the use of decorative scarves or other coverings that might obstruct ventilation.
4. Wall- and shelf-mounted installations using a commercial mounting kit must follow the factory-approved mounting instructions. A product mounted to a shelf or platform must retain its original feet (or the equivalent thickness in spacers) to provide adequate air flow across the bottom. Bolts or screws used for fasteners must not touch any parts or wiring. Perform leakage tests on customized installations.
5. Caution customers against mounting a product on a sloping shelf or in a tilted position, unless the receiver is properly secured.
6. A product on a roll-about cart should be stable in its mounting to the cart. Caution the customer on the hazards of trying to roll a cart with small casters across thresholds or deep pile carpets.
7. Caution customers against using a cart or stand that has not been listed by Underwriters Laboratories, Inc. for use with its specific model of television receiver or generically approved for use with TVs of the same or larger screen size.
8. Caution customers against using extension cords. Explain that a forest of extensions, sprouting from a single outlet, can lead to disastrous consequences to home and family.

SERVICING GUIDELINES FOR X-RADIATION PROTECTION

X-RADIATION

To prevent possible exposure to radiation caused by excessive CRT Anode voltage, the High Voltage Shutdown circuit senses the level of flyback pulse from "Flyback Transformer" representative of the actual high voltage on the CRT anode. When this level exceeds a predetermined voltage, the circuit shuts down the horizontal drive, preventing further generation of anode voltage. In this condition, the horizontal drive is "latched" off. The drive will remain off until power (via remote control or front panel) is cycled from "Off" to "On".

CRT ANODE HIGH VOLTAGE MEASUREMENT PROCEDURE

Each screen size has its own safe operating Anode Voltage and shutdown voltage. Critical Safety components (designated with an "X" in the component designator) are designed to operate the CRT at a safe operating Anode voltage and provide proper shutdown thresholds. If replacement of any of these components are deemed necessary, it is important to use original type Zenith replacement components. After replacement is made, confirm proper Anode voltage using the following procedure.

Measurement of the CRT Anode voltage must be performed using a high impedance high voltage meter, with no visible raster on the screen, and operating at nominal horizontal scanning frequency. Connect a strong broadcast signal (or TV signal generator operating at 15.734kHz horizontal scanning rate) to the RF input.

After the CRT is discharged, connect a high impedance high voltage meter at the distribution block. Turn the television "on" and confirm a good signal is being displayed. Reduce Brightness and Contrast settings until the picture is well extinguished.

Observe the Anode voltage meter reading and compare with the table below for the proper CRT screen size. If the voltage reading is higher than the maximum, verify circuit component values and proper operation.

SCREEN SIZE	B+ VDC (0 BEAM)	HV NOM KV	HV MAX KV
COMPONENT LEVEL REPAIR			
27	128.5 +/- 2%	30	31.5

EQUIPMENT REQUIRED

- Video Generator.
- HV DC meter (0 to 40 KV, high Z).
- External variable power supply (0V to 7.5VDC @ 5Amps minimum).

TEST PROCEDURE

To verify the Shutdown Circuit is operating properly proceed with the following procedure:

Supply +7.5V DC between R446 and R448 on the High Voltage Deflection PCB. If there is no raster and set goes into Shutdown, then the Shutdown Circuit is functional. If the set doesn't go into Shutdown, then the Circuit is defective.

TABLE OF CONTENTS

SECTION 1	GENERAL	SECTION 4	PARTS
OVERVIEW	1-1	MODEL PARTS	4-1
FEATURES	1-1	COMPONENT PARTS LIST	4-2
SPECIFICATIONS	1-1		
ABBREVIATIONS	1-1	SECTION 5	MECHANICAL DRAWINGS
MBR3458Z MODEL REMOTE CONTROL	1-2	BLOCK DIAGRAM	5-1
REMOTE PROGRAMMING	1-3	WIRING DIAGRAM	5-2
PROGRAMMING THE REMOTE	1-3	EXPLODED VIEW	5-3
AUTO FIND	1-3		
CABLE BOX	1-3	SECTION 6	PCB LAYOUTS
VOLUME OVERRIDE	1-3	MAIN/SIGNAL PCB LAYOUT	6-1
AUXILIARY CAPABILITY	1-3	MAIN2/HIGH VOLTAGE DEFLECTION PCB LAYOUT	6-2
USER MENUS	1-5	AUDIO PCB LAYOUT	6-3
CHANNEL MENU	1-5	CRT/CPT & SIDE A/V PCB LAYOUT	6-4
VIDEO MENU	1-6	PIP PCB LAYOUT	6-5
AUDIO MENU	1-7	DCF PCB LAYOUT	6-6
CLOCK MENU	1-7		
PARENTAL CTL	1-8	SECTION 7	SCHEMATICS
MPAA RATING SYSTEM	1-9	MAIN/SIGNAL CIRCUIT	7-1
TV PARENTAL GUIDELINE RATING SYSTEM	1-9	MAIN2/HIGH VOLTAGE DEFLECTION CIRCUIT	7-2
SPECIAL FEATURES MENU	1-10	CRT/CPT CIRCUIT	7-3
		PIP CIRCUIT	7-4
SECTION 2	INSTALLERS MENU	A/V SWITCH CIRCUIT	7-5
INSTALLER'S MENU	2-1	VIDEO ACCESSORY CIRCUITS	7-6
FACTORY MENU SETTINGS	2-2		
SECTION 3	SERVICING		
PURITY ADJUSTMENT	3-1		
PRELIMINARY STEPS	3-1		
HORIZONTAL LINE ADJUSTMENT	3-1		
PURITY ADJUSTMENT	3-1		
CONVERGENCE ADJUSTMENT	3-1		
TEST EQUIPMENT	3-1		
PRELIMINARY STEPS	3-1		
STATIC CONVERGENCE (SC) ADJUSTMENT	3-1		
DYNAMIC YOKE CONVERGENCE (DYC) ADJUSTMENT	3-1		
WHITE BALANCE ADJUSTMENT	3-1		
TEST EQUIPMENT	3-1		
PRELIMINARY STEPS	3-1		
ADJUSTMENT	3-2		
SCREEN VOLTAGE ADJUSTMENT	3-2		
PURITY & CONVERGENCE ADJUSTMENT	3-3		
TROUBLESHOOTING	3-4		

OVERVIEW

FEATURES

- Truly Flat 27" Picture Tube
- 3D Comb Filter
- INVAR Shadow Mask
- Scan Velocity Modulation
- Digital Eye
- ASAR Coating - (Anti-Static Anti-Reflection)
- Wide Band Video Amplifier
- 16 Rear Jacks and 4 Side Jacks
- MBR3458Z Remote w/Locator Capability
- 10 Watt Audio w/Center Speaker

SPECIFICATIONS

POWER INPUT	AC100-240V, 50/60Hz
POWER CONSUMPTION	90W
ANTENNA INPUT IMPEDANCE	HF/UHF 75 ohm Balanced
CHANNEL RANGE	
VHF	2-13
UHF	14-69
CATV(125)	01, 02-13, 14-125
INTERMEDIATE FREQUENCIES	
Picture I-F carrier frequency	45.75MHz
Sound I-F carrier frequency	41.25 MHz
Color Sub-carrier frequency	42.17 MHz
Center frequency	44 MHz
CHASSIS CONSTRUCTION	IC-Solid state chassis
PICTURE TUBE	Type No.A48QAD220X
SOUND OUTPUT	3 W
CABINET	Plastic

ABBREVIATIONS

used in this manual

ADJ	Adjustment or Adjust	H	Horizontal
AFC	Automatic Frequency Control	V	Vertical
AGC	Automatic Gain Control	IC	Integrated Circuit
AMP	Amplifier	OSD	On-Screen Display
CRT	Cathode Ray Tube	SAP	Second Audio Program
DEF	Deflection	BPF	Band Pass Filter
DET	Detector	ST	Stereo
FBT	Flyback Transformer	LPF	Low Pass Filter
HV	High Voltage	DP	Differential Phase
OSC	Oscillator	DG	Differential Group
SEP	Separator	PLL	Phase Locked Loop
SYNC	Synchronization	APC	Automatic Picture Control
S.I.F	Sound Intermediate Frequency	BM	B+ Main
V.I.F	Video Intermediate Frequency	BT	B+ Tuning



REMOTE PROGRAMMING

PROGRAMMING THE REMOTE

If you're using Zenith products, the remote is already programmed for most common codes: TV = 101, VCR = 201, CABLE = 353, and AUX = 401. For other brands, or if your remote fails to control your Zenith products, you'll have to program the remote.

Make sure the batteries are installed and follow these steps for each product:

1. Press and hold PRG using a blunt pointed object. Release PRG after the indicator light turns on.
2. Press and release the device key for the product being programmed (CATV, VCR, AUX, or TV).
3. Enter the 3-digit product code from the chart on the next page.
4. Press and release ENTER to save the code.
5. Point the remote at the product and press POWER to test the product's operation. If it does not turn on, reprogram the remote using a different code.

AUTO FIND

If none of the codes in the code table operate your equipment, use Auto Find to search for the proper code.

1. Turn on the product you want to operate.
2. Press and hold PRG using a blunt pointed object. Release PRG after the indicator light turns on.
3. Press the key to be programmed (CATV, VCR, AUX, or TV).
4. Enter "000", then press ENTER within two seconds. Auto Find is active after the indicator light flashes and remains lit.
5. Point the remote at the product.
6. Press and release POWER repeatedly, about once a second, until your product turns Off. The indicator light turns off when you press POWER and on when you release it.
7. Once the product turns off, press ENTER immediately to save the code. The indicator light flashes to indicate the code has been saved.
8. Press POWER to turn On your product.
9. Test your product. If the remote fails to operate the functions you use most often, use Auto Find again to search for a better code. (Auto Find resumes its search after the last code that was entered and saved in step 7).

NOTE: *If the indicator light stays on as you press POWER, Auto Find has tried all of the codes. If the product you want to control has not turned off, this remote will not work with that product. To cancel Auto Find, press PRG at any time during Auto Find.*

CABLE BOX

This remote can control the cable/converter box volume and muting (instead of the TV's) if available on your equipment.

1. Program the cable/converter box normally.
2. After programming the cable/converter box, Press and hold PRG again using a blunt pointed object. Release PRG after the indicator light turns on.
3. Press and release the same button used in set 1.
4. This time, enter the special code 3-9-9 instead of the product code.
5. Press and release ENTER to save.

VOLUME OVERRIDE

These remotes can override TV, VCR, or Video Disk Player volume functions with an amplifier's volume and muting.

1. Program the amplifier normally.
2. After programming the amplifier, Press and hold PRG again using a blunt pointed object. Release PRG after the indicator light turns on.
3. Press and release the device button whose volume control is to be replaced by the amplifier volume control. For example, pressing TV will operate the amplifier's volume while the remote is in TV mode.
4. This time, enter the special code 4-9-9 instead of the product code.
5. Press and release ENTER to save.

AUXILIARY CAPABILITY

This remote can control up to seven devices. If the remote has been programmed for four components using the TV, VCR, CABLE and AUX keys, you may also program it for up to three additional using AUX+1, AUX+2 and AUX+3.

TO PROGRAM AUX+1, AUX+2, AND AUX+3

1. Locate three-digit code for product in code table.
2. Press and hold PRG until indicator lights up.
3. Press the AUX and 1 simultaneously to select AUX+1.
4. Enter a three-digit code, then press ENTER. The indicator light should flash, then turn off to indicate code is accepted. If the light stays on, repeat steps 3 and 4 or try a different code.
5. Repeat steps 2-4 for AUX+2 and AUX+3.
6. Write the codes on the label inside battery compartment for future reference. Hold down AUX and press 1, 2, or 3 access AUX+1. +2 or +3 mode.

PROGRAMMING CODES

TV'S	
Admiral	116, 121, 130, 133
Adventura TV/VCR	154
Aikai	104
Amark	103, 146
AOC	104
Bell & Howell	121
Broksonic	131, 136, 182
Candle	139
Centurion	119
Citizen	121, 139
Contec	141
Coronado	103
Crown	103
Curtis Mathis	116, 119, 121
Daewoo	149, 159
Daytron	119
Elektra	121
Emerson	103, 104, 123, 124, 131, 136, 145, 176
Fisher	109, 118
General Electric	106, 107, 114, 116, 117, 161
Goldstar	103, 104, 119, 147, 184
Hitachi	102, 103, 129, 163, 121
Inteq	101
J.C. Penney	104, 110, 114, 117, 119
JVC	125, 132, 164
KMC	103
KIV	103, 104, 138
Kurazai	121
LG	184
Lodgenet	121
Logik	121
LXI	133, 137
Magnavox	103, 112, 113, 117, 119, 127, 128, 130, 139, 165
Majestic	121
Marantz	104, 120, 155
Megatron	146
Memorex	121
MGA/Mitsubishi	104, 119, 120, 130, 133, 140, 155, 169, 178
Montgomery Ward	103, 104, 105, 113, 114, 119, 121, 130, 133
NEC	104, 119
Orion	176
Panasonic	106, 107, 160, 166
Philco	103, 104, 112, 113, 139
Philips	112, 113
Pioneer	135
Portland	103
ProScan	116, 157, 162, 167
Quasar	106, 107
RCA	104, 116, 126, 157, 161, 162, 167, 168
Realistic	105, 123, 124
Sampo	119
Samsung	103, 119, 134, 141
Sanyo	108, 109, 118
Scott	119, 124
Sears	103, 108, 109, 110, 111, 118, 134
Sharp	103, 105, 122, 133, 137, 156, 169
Signature 2000	103, 104, 105, 113, 114, 119, 121, 130, 133
Sony	115, 143, 151, 170
Soundesign	139
Sylvania	112, 113, 117, 119, 127, 128, 139
Tatung	106
Teknika	103, 112, 121, 124, 139
Telerent	103, 121
Toshiba	110, 111, 134, 171
XR1000	121, 154
Yox	119
Zenith	101, 142, 149, 177
Zenith Star Sight	175

VCRS	
Admiral	208, 261
Adventura	231
Aiwa	231
Aikai	223, 238, 241
Audio Dynamics	202, 206, 218, 247
Bell & Howell	206, 247
Broksonic	221, 226, 233, 250, 255
Canon	214
Citizen	209
Craig	212
Criterion	239
Curtis	214, 259
Mathis	
Daewoo	244, 246, 248, 254
Daytron	236, 246
DBX	202, 218
Emerson	203, 209, 221, 223, 226, 233, 235, 243, 250
Fisher	211, 212, 213, 247
Funai	231
General Electric	214, 216, 220
Goldstar	209, 273
Go Video	256, 262, 263, 275
Hitachi	215, 231, 257
Instant	214, 227
Replay	
Inteq	273
J.C. Penney	214, 215, 218, 227
JVC	202, 224, 225, 258, 263
Kenwood	202
Logik	239
LXI	209, 231
Magnavox	207, 214, 231
Marantz	207, 218
Marta	209
Memorex	206, 212, 214, 231
Mitsubishi	204, 222, 252, 264
Montgomery	208, 214, 216, 219, 231, 249
Ward	
Multi Tech	239
NEC	202, 218
Optimus	208, 209, 259
Orion	233, 250
Panasonic	214, 251, 259
Pentax	215
Philco	207, 214
Philips	207, 214, 227
Pioneer	210, 215
Portland	246
Pro Scan	216, 260
Quasar	214, 259
RCA	215, 216, 220, 227, 240, 242, 244, 260
Realistic	206, 208, 212, 214, 231
Samsung	220, 230, 238
Sansui	239
Sanyo	206, 212, 247
Scott	204, 205, 233, 243
Sears	206, 209, 211, 212, 215
Sharp	208, 261, 272
Shintom	239
Signature 2000	208, 214, 216, 219, 231, 249, 261
Sony	217, 232, 237, 274
Sylvania	207, 214, 227
Symphonic	231
Tashiko	209
Tatung	202
Teac	202, 231
Teknika	209, 234
Toshiba	205, 215, 271
XR1000	239
Vector Research	204, 218
Yamaha	202, 218
Zenith	201, 224, 225, 229, 237

VCR/TVS	
Daewoo	148
Emerson	158
Funai	154
Goldstar	153
Hitachi	154
LXI	154
Magnavox	173, 181
Panasonic	174
RCA	179
Samsung	180
Sansui	182
Sharp	179
Sylvania	154
Symphonic	154
Zenith	153, 154, 172

CABLE/SATELLITE Set-Ups	
Allegro	358, 362
Allegro A/B Switch	361
Amerkast	383
Dish Network	389
Gemini	305, 331, 338
General Electric	367
General Instrument	305, 306
Hamlin	302, 303, 345, 365, 366
Jerrold	304, 307, 308, 309, 310, 318, 360, 363
Kale Vision	335
Macom	314, 321
Magnavox	334
NEC	335, 339, 368, 369, 370
Oak	311, 332, 342
Panasonic	313, 320
Paragon	333
Philips	347, 350, 352, 354, 355
Pioneer	315, 343
Primstar	388
Radio Shack	362
RCA DSS	373, 394
Regal	366
Regency	329
Samsung	335
Scientific Atlanta	316, 323, 336, 364
Sony DSS	387
Sprucer	313
Standard Comp	335
Stargate	379
Texscan	339, 356, 371
Tocom	317, 318, 346
Toshiba DSS	391
Unika	348, 362
United Satellite	344
Universal	358, 362
Vid Tech	340
Video Way	349
Viewstar	354, 355, 372
Zenith	301, 353
Zenith HD Set Top	385
Zenith N/C Set Top	384, 395
Zenith Satellite	312, 328, 330, 351

LASER DISC	
Denon	402, 403
Mitsubishi	403
Pioneer	402, 403, 405
Sanyo	401
Sony	404
Zenith	401

AUDIO TAPE DECKS	
Denon	455
Harman/Kardon	456
JVC	457
Kenwood	450
Onkyo	458
Philips DCC	454
Pioneer	451, 478
Sony	452
Technics	454, 497
Yamaha	453

AUDIO CD PLAYERS	
Aikai	409, 424
Carver	510
Crown	410
Denon	411
Fisher	412, 438
Goldstar	460
Harman/Kardon	413
JVC	415
Kenwood	412, 416, 417, 441
Magnavox	421, 422, 433, 434
Mitsubishi	423, 424
NAD	425, 426, 447
Nakamichi	427, 428
NEC	429
Onkyo	430
Panasonic	431, 432
Philips	421, 433, 434
Pioneer	431, 435
Quasar	432
Radio Shack	431, 436, 439, 440, 441
RCA	437
Sanyo	438, 439
Scott	440
Sharp	441, 442
Sony	443, 444, 445
Soundesign	461, 498, 501, 502
Sylvania	433
Teac	446
Technics	432, 459
Toshiba	447
Yamaha	448
Zenith	460, 461, 498, 501, 502

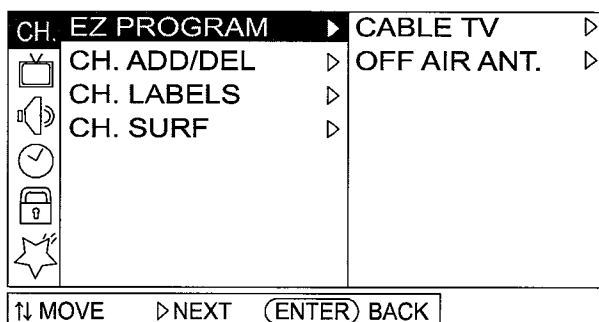
AUDIO TUNERS AND AMPLIFIERS	
Denon	462, 463
Fisher	464
Goldstar	460
Harman/Kardon	465
JVC	466
Kenwood	468, 469, 506
Marantz	472, 503
Onkyo	473
Philips	475, 476
Pioneer	477, 478, 479
Radio Shack	487, 488
Realistic	480
Sanyo	481
Scott	482
Sharp	483
Sherwood	487, 488
Sony	489, 490, 491, 492
Soundesign	461, 498, 501, 502
Teac	494, 495
Technics	497, 509, 567
Yamaha	496
Zenith	460, 461, 498, 501, 502, 504, 505

DVD PLAYERS	
Denon	523, 524
Marantz	521
Mitsubishi	525
Panasonic	523, 524
Philips/Magnavox	521
Pioneer	527
Proscan	526
RCA	526
Sony	522
Toshiba	521
Zenith	521

USER MENUS 905-10442

CHANNEL MENU

The Channel Menu is used to setup the TV and adjust basic features.



EZ PROGRAM

The Auto Program feature automatically searches for all available channels and marks them as 'added' so that they may be accessed via the channel Up/Down key.

In the Auto Program screen:

- A message at the top displays "Auto Program" to let the customer know that they have entered the Auto Program feature.
- A line at the bottom of the screen shows that the Up/Down and Left/Right Arrow keys are used for Auto Program selections.
- The current RF input type (Off Air Antenna or Cable TV) is highlighted. Use the Up/Down Arrow keys to change the RF input type.

To start the Auto Program, press the Left/Right Arrow key. If the Cable TV input type is selected, the Auto Program routine will determine what type of cable system is present.

Notes:

- *Auto program clears all Surfing channels, which were added.*
- *While searching for channels, all keys except for the Power key are disabled. This prevents an incomplete Auto Program procedure.*
- *Running the Auto Program will clear the factory mode, if it was active. This happens at the end of the Auto Program.*
- *If the Auto Program line in the Setup Menu is 'red', this indicates that the module did not pass one of the test equipment's tests.*

If no channels are found then the following message will appear: "Make sure that the cable/ant. is connected and try again."

CH. ADD/DEL

After running the Auto Program, all channels found by the Auto Program feature will be marked as 'Added'. However, some of these channels may be scrambled, or undesired by the customer. The Channel Add/Del/Blk feature allows the customer to selectively mark any channel as 'Deleted' or 'Added'.

To change the status of a channel, press the Right/Left Arrow key.

To change the channel while adding or deleting channels, use the Channel Up/Down keys, or press the desired channel digits followed by 'Enter'. If Channel Up/Down is pressed the next or previous channel, which was marked 'Added', will appear. If only one channel is present, to change the channel the customer must use the digit keypad to select a channel.

CH. LABELS

This feature allows the customer to select a channel label for the current station. This channel label is displayed in the Channel/Time display. Initially, all channel labels are set to '—' (which means that auto label is selected).

To change the current channel label, press the Left or Right Arrow key.

To change the channel while adjusting channel labels, use the Channel Up/Down Arrow keys, or press the desired channel digits, followed by 'Enter'. (If Channel Up/Down is pressed, the next or previous channel which was marked 'Added' will appear.)

Channel Labels						
A&E	CMTV	ESPN	HSE	NOS	TBN	VC
ABC	CNBC	ESP2	HSN	PBS	TELE	VCR
ACTS	CNN	ET	IC	PLAY	TLC	VH-1
ADC	COM	EWTN	INSP	PTL	TMC	VISN
AMC	CSPN	FAM	JCN	QVC	TNN	VJN
BCC	CSP2	FNN	LIFE	RDS	TNT	WB
BET	CTN	FOX	MAX	REQ	TRAV	WGN
BRAV	CTV	F&V	ME/U	SC	TSN	WTBS
CA	DIS	FX	MMT	SCFI	TVA	WWOR
CBC	DISC	GALA	MTV	SHOW	TWC	YTV
CBN	E!	HBO	NBC	SIN	UPN	- - - -
CBS	ENC	HN	NICK	TBS	USA	None

NOTE: Selecting the "- - - -" label option means that auto label is selected. Selecting the "None" option means the channel will not have a label.

USER MENUS 905-10442 (continued)

Notes:

- When the "- - -" label is selected, then the Auto channel label is activated, in other words, the program automatically takes the channel label of the signal that is sent by broadcasting through the XDS service.
- If the label None is selected, the Auto channel label is not activated.

PROGRAMMABLE CHANNEL LABELS

Besides the labels already provided, the customer may select a label of his or her choice. The programmable labels are at the end of the list of labels already provided.

Programmable Channel Labels									
Blank	ê	Reserved	-	<	K	Z	i	x	
|	î	Reserved	.	=	L	[	j	y	
|	ô	Space	/	>	M	\	k	z	
Blank	û	!	0	?	N	]	l	{	
Ô	á	"	1	@	O	^	m	|	
°	é	#	2	A	P	_	n	}	
½	í	\$	3	B	Q	'	o	~	
¿	ó	%	4	C	R	a	p	Block	
ä	ú	&	5	D	S	b	q		
¢	V	'	6	E	T	c	r		
£	,	(	7	F	U	d	s		
		)	8	G	V	e	t		
à	ñ	*	9	H	W	f	u		
è	Reserved	+	:	I	X	g	v		
â	Reserved	'	;	J	Y	h	w		

Pressing the volume key allows the editing of the first character. In this case it is the "L" that would start blinking. However, if the Left volume key is pressed, the "1" is the character that would begin to blink. When the character begins to blink, the customer may select another character.

The method of selecting another character is by pressing the channel Up/Down key. If the channel up key is pressed, the character displayed would be a "M". On the other hand, if the channel down key is pressed, the character displayed is an "L".

There are 20 programmable labels that the customer may program. The available characters to choose from are the following:

Notes:

- The programmable labels have 5 characters that may be programmed.

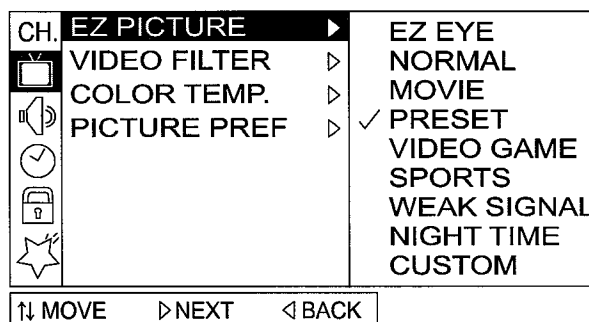
- If the mute key is pressed, the label is cleared. The channel is automatically given the label NONE.
- Any changes done to a label are stored even if another keystroke occurs. For example if the customer is programming a label and the first 3 letters are entered and accidentally the ENTER key is pressed or the Menu key is pressed, the label is stored with only the three characters being changed. The other two remain unchanged.
- If, for example, the 10th label is programmed as ABCDE, then the customer decides to clear it. The channel automatically receives the label NONE and label 10 is restored to LAB10.
- Using the Channel Up/Down the customer may select the above mentioned characters.

CH. SURF

Creates a list of surf (favorite) Surf channels which will appear when pressing SURF repeatedly.

VIDEO MENU

The Video Menu is used to adjust the TV's picture.



EZ PICTURE

Preset viewing preferences for different types of broadcasts. Options are: EZ Eye, Normal, Movie, Preset, Video Game, Sports, Weak Signal, Night Time, Custom.

VIDEO FILTER

Changes the amount of difference between the white and black levels of the picture. Options are On and Off.

COLOR TEMP.

Changes the overall picture appearance. Options are Warm, Medium, and Cool.

PICTURE PREF.

CONTRAST

Changes the amount of difference between the white and black levels of the picture. Contrast adjustment has 64 steps (0 to 63).

USER MENUS 905-10442 (continued)

BRIGHTNESS

Increases or decreases the amount of white in the picture. Brightness has 64 steps (0 to 63).

COLOR

Adjust levels of all colors. Color adjustment also has 64 steps (0 to 63).

TINT

Adjusts the relative amounts of the colors red and green in the picture. Tint Adjustment has 64 steps (0 to 63). A center mark indicates step 29.

SHARPNESS

Raises or lowers the definition of the picture. The lower the level, the softer the image will appear. Sharpness adjustment has 64 steps (0 to 63). The sharpness value is sent to the video processor as Custom Sharpness.

AUDIO MENU

All options in the Audio Menu are selected with the Up/Down Arrow key. Once the option is selected, use the Left/Right Arrow keys to adjust to option to the desired setting.

CH.	MTS	▶	MONO
	EZ SOUND	▷	✓ STEREO
	EZ SOUNDRIE	▷	SAP
	SOUND PREF.	▷	

↑ MOVE ▷ NEXT ◁ BACK

MTS

There are three audio modes available: Mono, Stereo, and SAP (Second Audio Programming).

If SAP is selected, but the current channel does not support SAP, then either Stereo or Mono will be heard.

EZ SOUND

Controls the audio based on the sound source. Options are: News, Theater, Music, Custom.

EZ SOUNDRIE

The SoundRite feature is used to obtain a uniform volume level, particularly while changing channels. The SoundRite feature can be best demonstrated on a channel with no signal (snow).

SOUND PREF.

BALANCE

Balance adjustment has 29 steps (0 to 28). A center mark indicates step 14.

HEADPHONE VOLUME

Adjusts the volume sent to the headphone jack.

EQUALIZER

TREBLE

Treble adjustment has 15 steps (0 to 14). A center mark indicates step 7.

MIDRANGE

Midrange adjustment has 15 steps (0 to 14). A center mark indicates step 7.

BASS

Bass adjustment has 15 steps (0 to 14). A center mark indicates step 7.

CLOCK MENU

The Clock Menu is used to set the TV's clock and timer features.

CH.	CLOCK SET	▶	12:00 AM
	ON TIME	▷	
	OFF TIME	▷	
	ON/OFF TIME	▷	

◁ MOVE ↑ ADJUST (ENTER) BACK

CLOCK SET

When no time is set, the display shows: —:— —

There are two ways to set the time manually:

1. Direct Entry (preferred) Use the digit keys, followed by 'Enter' or Select Up/Down.
2. Using the Left/Right Arrow keys.

When the first digit is introduced, the display shows:

—:—d AM < Timer

When the time is set, the display shows:

hh:mm AM < Timer

where:

d = digit, mm = minutes, and hh = hours

USER MENUS 905-10442 (continued)

Entering an invalid time ("0" for example) will result in the clearing of the current time (—:— —). Also when only one digit is pressed and no other is pressed in an interval of seven seconds, the current time will be cleared.

Note: *When the first digit is pressed (or the Left/Right Arrow Key is pressed), a **TIMER** icon appears on the right side of the AM/PM status.*

The Left/Right Arrow keys is the other way of setting the time. If the customer uses the Right Arrow key, the time will increment to the next minute and so on until the customer finds the time desired. On the other hand, if the Left Arrow key is pressed, the time will decrement one minute and so on until the customer finds the time desired.

ON TIME

Sets the time the TV will turn on automatically.

OFF TIME

Sets the time the TV will turn off automatically.

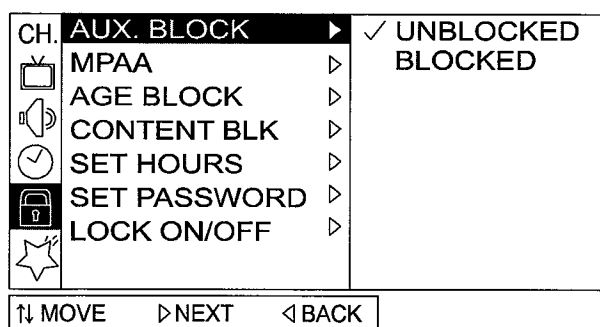
ON/OFF TIME

Enables or disables the On and Off Time features.

PARENTAL CTL

This optional feature can be used to prevent (block) unwanted programming from appearing on your TV.

Parental Control offers the user a wide variety of options and settings that restrict or block programming that can appear on the TV. It allows user the capability of defining which program ratings they consider acceptable to younger or more sensitive viewers.



Parental Control can be preset and turned on or off by a user who specifies the secret 4 number code, or password. The number of hours blocked may be specified.

NOTE: *To reset parental control press & hold the **MENU** key until the Channel/Time display appears, then press '9', '8', '7', '6', and **CC**.*

AUX. BLOCK

To Block or Unblock the sources, press the Left/Right arrow key.

MPAA

The MPAA selector allows the customer to select either to have the channel Unblocked, G and Above, PG and Above, PG-13 and Above, R and Above, NC-17 and Above, or X.

AGE BLOCK

Use the Left/Right adjust keys to select the Age Block Menu.

GENERAL

Once entering into the Age Block Menu, The customer has the option to block channels for general age or to block channels for children.

To block channels for a general age, the customer may either select: Unblocked, TV-G and Above, TV-PG and Above, TV-14 and Above, or TV-MA.

CHILDREN

To block channels for children, select either: Unblocked, TV-Y and Above, or TV-7.

CONTENT BLOCK

Use the Left/Right Arrow keys to select the Content Block Menu.

DIALOG

To block channels for children, select either: Unblocked, TV-PG and Above, or TV-14

LANGUAGE

To block the dialog, use the Left/Right arrow keys to select either: Unblocked, TV-PG and Above, TV-14 and Above, or TV-MA.

SEX SCENES

To block the Sex Scenes, use the left/Right arrow keys to select either: Unblocked, TV-PG and Above, TV-14 and Above, or TV-MA.

VIOLENCE

To block the Violence, use the left/Right arrow keys to select either: Unblocked, TV-PG and Above, TV-14 and Above, or TV-MA.

F. VIO

To block the F Violence, use the left/Right arrow keys to select either: Unblocked or TV-7.

NO RATING

To block No Rating, use the Left/Right arrow keys to select either: Unblocked or Blocked.

USER MENUS 905-10442 (continued)

SET HOURS

Use the Left/Right arrow keys to adjust the number of hours the Parental Control feature will be active. The valid hour range is 1 through 99 hours.

SET PASSWORD

Press the Left/Right arrow keys to allow setting a Password.

The software accepts four-digit codes only. The customer must enter a password. After a four-digit code has been entered, the software requires the customer to re-enter the same four-digit code. If an invalid code is entered, or the two codes entered do not match, an error message ("Not Accepted!") will appear blinking.

NOTE: *This error message also appears when no code is entered for the password or if only one digit is entered and no other digit has been entered.*

LOCK ON/OFF

This item turns the Advanced TV feature On or Off. The Adv. TV Ctl feature can only be turned on if the hours > 0, and a password has been set. Otherwise the Lock On/Off line will display either of the following error messages: "Must Set Hours" or "Must Set Password".

If the Parental Control Feature has been activated, the software will not allow immediately entry into the Parental Control Menu. Instead, it will prompt for the correct password.

MOTION PICTURE ASSOCIATION OF AMERICA (MPAA) RATING SYSTEM

G	General Audiences	Content not offensive to most viewers.
PG	Parental Guidance Suggested	Content is such that parents may not want their children to view the program.
PG-13	Parental Guidance Suggested	Program is inappropriate for preteens, with a greater degree of offensive material than a PG-rated program.
R	Restricted viewing	Not for children under age 17. Strong elements of sex and/or violence.
NC-17	Restricted Viewing	Not for children under age 17 under any circumstances. Strong sexual content.
X	Hard Core Films	Same as NC-17 rating.

Note: *Zenith Electronics Corporation is not liable for any program content that appears when using this rating system; as always, user discretion is advised.*

TV PARENTAL GUIDELINE RATING SYSTEM

G	General Audiences	Content not offensive to most viewers.
TV-G	General Audience	Considered suitable for all audiences; children may watch unattended.
TV-PG	Parental Guidance Suggested	Unsuitable for younger children, may contain: Suggestive Dialog, Bad Language, Sex, and Violence Scenes.
TV-14	Parents Strongly Cautioned	Unsuitable for children under 14, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes.
TV-MA	Mature Audience Only	Adults only, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes.






CHILDRENS' CLASSIFICATIONS

TV-Y	Children	Considered suitable for all children under 7 years old.
TV-Y7	Children 7 and over	Considered suitable for children over 7, may contain Fantasy Violence Scenes.

USER MENUS 905-10442 (continued)

SPECIAL FEATURES MENU

The Special features Menu goes beyond the basics in TV setup.

CH.	LANGUAGE	▶	✓ ENGLISH
	CAPTIONS	▶	SPANISH
	CAPTION/TEXT	▶	FRENCH
	MAIN SOURCE	▶	
	PIP	▶	
	XDS DISPLAY	▶	
	EZ HELP	▶	
	EZ DEMO	▶	
↕ MOVE ▶ NEXT ◀ BACK			

LANGUAGE

This feature allows the customer to change the menu language to English, Spanish, or French by pressing the Left/Right Arrow keys.

CAPTIONS

Use the Right/Left ADJ arrows to Enable any of the following options: OFF, ON, or EZ Mute.

Press ENTER to remove the menu.

Select Closed Captions directly by pressing CC repeatedly to choose OFF, ON, or EZ Mute.

NOTE: Use EZ Mute to enable Closed Captioning only when the TV is muted.

CAPTION/TEXT

Use the Right/Left ADJ arrows to choose any of the following options: CC1, CC2, Text1 or Text2.

Press ENTER to remove the menu.

Caption/Text is a feature that allows the TV to receive closed captions and or text options when made available by the broadcaster.

NOTES:

- **Availability and functionality of Caption/Text features are determined only by each broadcaster and may not be available in your area.**
- **Captions - The term for the words that scroll across the bottom of the TV screen; usually the audio portion of a program, provided for hearing impaired.**

- **Text – The term for the words that appear in a large black frame that almost covers the entire screen; usually messages provided by the broadcaster.**

MAIN SOURCE

The selection of Main Source determines the signal that feeds the video processor.

PIP

Adjusts the PIP inset: size of the PIP picture, the signal's source, and the PIP's position.

XDS DISPLAY

Program information shown on the screen when a channel is tuned or Enter is pressed.

NOTE: Availability and functionality of Caption/Text features are determined only by each broadcaster and may not be available in your area.

EZ HELP MENU

The special features EZ Help option may be accessed using the Left/Right Arrow keys. The EZ Help feature provides help on certain options. For example, when the EZ Help feature is activated using the Left/Right Arrow keys, the EZ Program option is available to access through the EZ Help menu. Along with the possibility of accessing any of the following options EZ Program, Add/Surf/Del, Degaussing, EZ Picture and EZ SoundRite, there is a simple explanation of the each of the options.

The EZ Help has a main screen called EZ Help. This screen gives a solution to the most common problem that a customer may encounter; i.e., the correct connection of the antenna.

EZ DEMO

The EZ Demo is designed to show-off the icon menus and other icon displays on the sales floor. The EZ Demo feature can be turned On/Off with the Left/Right Arrow keys.

Initially, when the feature is activated, as soon as the OSD times out, the EZ Demo will start. At this point, pressing any key will temporarily disable the EZ Demo for 18 seconds, and if the EZ Demo is working and the Menu key is pressed then the Setup Menu will be displayed and the EZ Demo feature will be selected allowing the customer to disable it.

INSTALLERS MENU

ADJUSTMENTS

To enter the installer's menu, press and hold MENU key until the Menu display disappears, then press 9,8,7,6, and then ENTER to access the Service Menu.

LG8990-25A		VER 1.00	
Microcontroller		Program	
Type		Revision	
VP 1 OSD H		POSITION 3	
Factory Option			

When the Service menu appears, it displays the first Service Menu item: F MODE. If F MODE is set to zero, only 9 items will be available as show in the Installer's Menu Settings table. If set to 1, all items will be available as shown in the Factory Menu Settings table. Use the SELECT UP/DOWN keys to toggle through all of the adjustments. Use the SELECT LEFT/RIGHT keys to make a change to selected item.

INSTALLERS MENU SETTINGS FOR IQB27FW				
NUM	ITEM	RANGE	VALUE	DESCRIPTION
0	F MODE	0 - 1	0	Factory Mode
1	OSD H POI	0 - 70	3	OSD Position
2	AC ON	0 - 1	0	On/Off with AC power
3	MSCOL	0 - 15	7	Color Level
4	POSHR	0 - 255	30	PIP Horizontal Position
5	POSVR	0 - 255	9	PIP Vertical Position
6	RAMP	0 - 255	65	PIP R Level
7	GAMP	0 - 255	65	PIP G Level
8	BAMP	0 - 255	65	PIP B Level

FACTORY MENU SETTINGS FOR IQB27FW			
ITEM	RANGE	VALUE	DESCRIPTION
00 F MODE	0 - 1	1	Factory Mode
01 OSD H POI	0 - 70	3	OSD Position
02 AC ON	0 - 1	0	On/Off with AC power
03 V-LIN	0 - 15	7	V-Linearity
04 S-CORR	0 - 15	7	S-Correction
05 V-POS	0 - 63	40	Vertical Position
06 V-SIZE	0 - 63	27	Vertical Size
07 H-POS	0 - 63	15	Horizontal Position
08 H-SIZE	0 - 63	26	Horizontal Size
09 PINAMP	0 - 63	21	Pin Cushion
10 U-CPIN	0 - 63	35	Upper Pin Cushion
11 L-CPIN	0 - 63	35	Low Pin Cushion
12 TRAPEP	0 - 15	6	Trapezoidal
13 EHTCOM	0 - 15	7	Do not adjust
14 AFCBOW	0 - 15	8	Bow
15 AFCANG	0 - 63	8	Angle
16 H MASK	0-1	1	Horizontal Mask
17 R-CUT	0 - 15	13	Red Cut
18 G-CUT	0 - 15	7	Green Cut
19 B-CUT	0 - 15	4	Blue Cut
20 R-DRV	0 - 63	38	Red Drive
21 G-DRV	0 - 63	30	Green Drive
22 B-DRV	0 - 63	25	Blue Drive
23 MSCOL	0 - 15	7	
24 POSHR	0 - 255	30	PIP Horizontal Position
25 POSVR	0 - 127	9	PIP Vertical Position
26 RAMP	0 - 255	65	PIP R Level
27 GAMP	0 - 255	65	PIP G Level
28 BAMP	0 - 255	65	PIP B Level

SERVICING

These instructions apply only to the MC-996A chassis.

Notes:

- *Always use an isolation transformer to protect yourself and your test equipment.*
- *Adjustments must be done in the correct order.*
- *The receiver must be operated for about 30 minutes prior to the adjustments. Preheat run must be operated receiving moving pictures or 100% white pattern.*

WARNING: Never operate the SET over 10 minutes with a still picture, this may cause CRT etching.

PURITY ADJUSTMENT

PRELIMINARY STEPS

- 1) Red Raster pattern.
- 2) Degaussing of CRT with degaussing coil.
- 3) Pre-adjust Static Convergence with 4-pole & 6-pole magnet.

HORIZONTAL LINE ADJUSTMENT

- 1) Check to see that the horizontal line is aligned correctly by setting two 2-Pole magnets in opposite direction respectively.

PURITY ADJUSTMENT

- 1) Move yoke close to CRT.
- 2) Select Red Generated Pattern and adjust the 2-Pole magnet. Adjust so that Red Color Bar is located at the center and do the following for Green and Blue (Be careful of Haloing, the two 2-Pole magnet is not to be adjusted over 30 degrees).
- 3) Pull the yoke back slowly and adjust so that the screen is fully Red.

CONVERGENCE ADJUSTMENT

TEST EQUIPMENT

- 1) Degaussing Coil.
- 2) Generated cross hatch pattern.


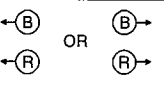
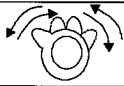
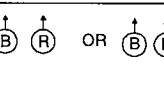

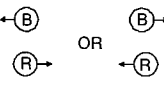

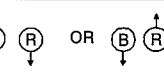
PRELIMINARY STEPS

- 1) Preheat set for 30 minutes before adjustment.
- 2) Degauss CRT.
- 3) Select Cross Hatch Pattern.
- 4) Adjust Contrast and Brightness for easy observation.

STATIC CONVERGENCE (SC) ADJUSTMENT

- 1) Select Crosshatch Pattern.
- 2) Adjust manual focus.
- 3) Open 4-Pole magnets until vertical Red and Blue lines are aligned.
- 4) Rotate 4-Pole magnets keeping the angle between two 4-Pole magnets until horizontal Red and Blue lines are aligned.
- 5) Open 6-Pole magnets until horizontal lines are Magenta (Red and Blue) adjust so that the Green lines are unified.
- 6) Rotate 6-Pole magnets until vertical Magenta (Red and Blue) align to Green.

CRT Ring Location Purity
Adjust Tabs Beam Movement
for Convergence

Ring Pairs	Rotation direction of Both Tabs	Movement of Red and Blue Beams
6 Pole	 Opposite	
Convergence R&B over G	 Same	
4 Pole	 Opposite	
Convergence R over B	 Same	

DYNAMIC YOKE CONVERGENCE (DYC) ADJUSTMENT

- 1) Vertical Line Adjustment : Adjust by moving the yoke right and left.
- 2) Horizontal Line Adjustment : Adjust by moving the yoke up and down.

WHITE BALANCE ADJUSTMENT

TEST EQUIPMENT

- 1) Automatic White Balance meter (Needs to be able to generate a Low/High light pattern).
- 2) White Balance meter (CRT color Analyzer).
- 3) Remote control for adjustment.

PRELIMINARY STEPS

Proceed with screen adjustment first.

SERVICING (continued)

ADJUSTMENT

- 1) Enter into Installer's Menu by pressing and holding the Menu key until the Menu Screen disappears. Then press 9, 8, 7, 6, and Enter. .
- 2) Select F_MODE and set it to 1.
- 3) Adjust CONTRAST and BRIGHT so the bright level to be 35Ft_L.
- 4) Select item 21 (GDRIVE) and adjust Y coordinate in High Light and select item 22 (BDRIVE) and adjust X coordinate so the color coordinates in High light as to be the values in Table below.
- 5) Adjust CONTRAST and BRIGHT so the bright level to be 4.5Ft_L.
- 6) Select item 18 (G-CUT) and adjust Y coordinate in Low Light and select item 18 (B-CUT) and adjust X coordinate so the color coordinates in Low light as to be the values in Fig 1 on the next page.

APC ON ——— CONTRAST: 100
 BRIGHT: 50
 COLOR: 50
 TINT: 0
 SHARPNESS: 50

SERVICING (continued)

PURITY & CONVERGENCE ADJUSTMENT

CAUTION: Convergence and Purity have been factory aligned. Do not attempt to tamper with these alignments.

Proceed with the following on after replacement of the picture tube or the deflection yoke may require readjustment of purity and convergence.

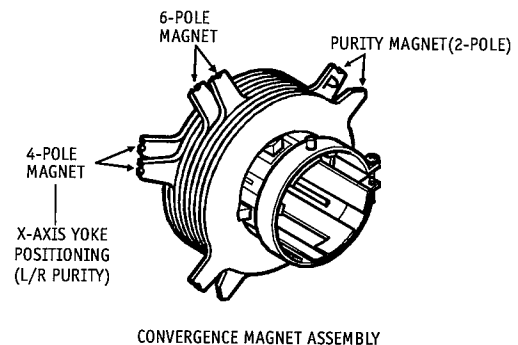
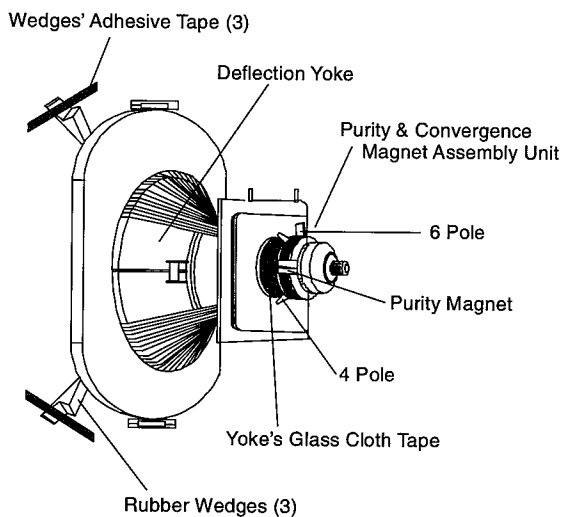
PURITY ADJUSTMENT

For best results, set should be operating at low beam current (dark background) for approximately 20 to 30 minutes before performing purity adjustments.

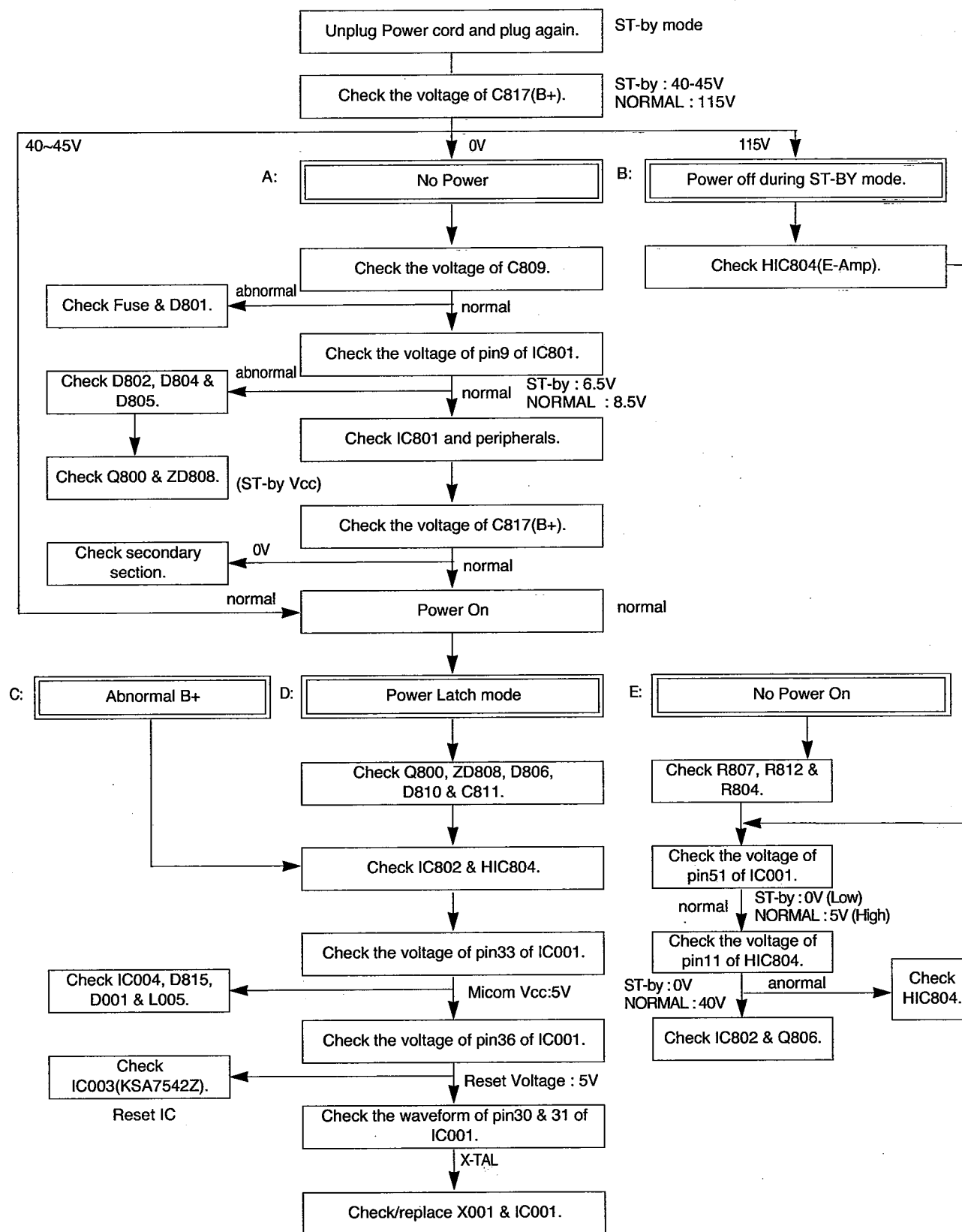
CAUTION: Do not remove any trim magnets that may be attached to the bell of the picture tube.

1. Remove the AC power and disconnect the internal degaussing coil.
2. Remove the yoke from the neck of the picture tube.
3. If the yoke has the tape version beam bender, remove it and replace it with an adjustable type beam bender (follow the instructions provided with the new beam bender)
4. Replace the yoke on the picture tube neck, temporarily remove the three (3) rubber wedges from the bell of the picture tube and then slide the yoke completely forward.
5. Reconnect the internal degaussing coil.
6. Position the beam bender locking rings at the 9 o'clock position and the other three pairs of tabs (2,4 and 6 pole magnets) at the 12 o'clock position.
 - a. Face the receiver in the "magnetic north" direction.
 - b. Externally degauss the receiver screen with the television power turned off.
 - c. Turn the television on for approximately 10 seconds to perform internal degaussing and then turn the TV off.
 - d. Unplug the internal degaussing coil. This allows the thermistor to cool down while you are performing the purity adjustment. DO NOT MOVE THE RECEIVER FROM ITS "MAGNETIC NORTH" POSITION.
 - e. Select/Inject a red raster.
 - f. Reattach the two round magnets onto the picture tube screen at 3 o'clock and 9 o'clock positions, approximately one (1) inch from the edge of the mask (use double-side tape)

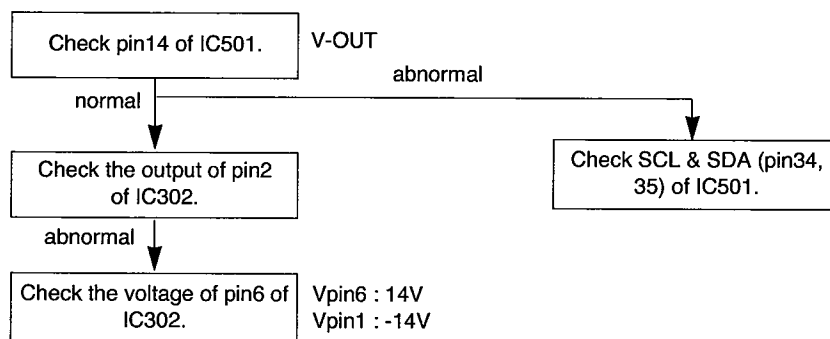
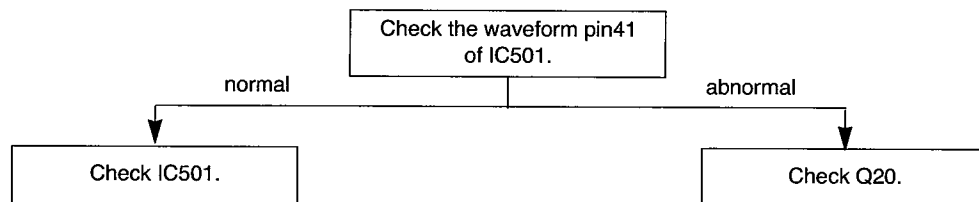
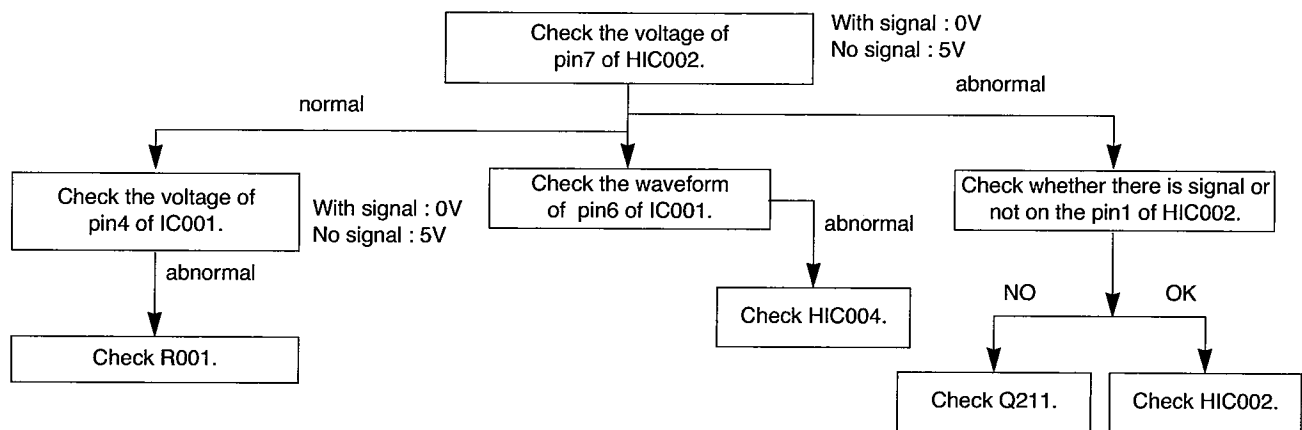
See page 3-1 for Convergence Adjustment.



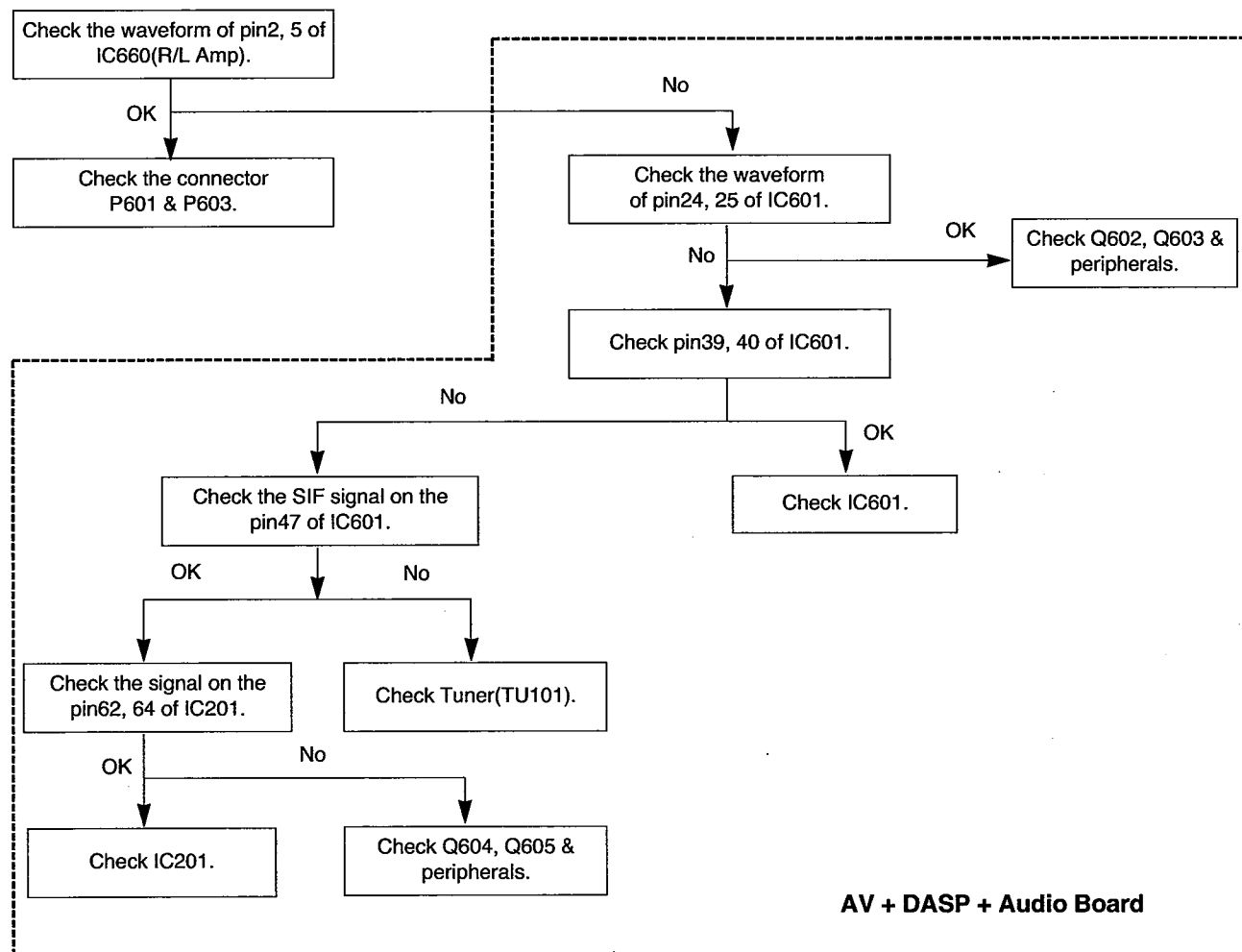
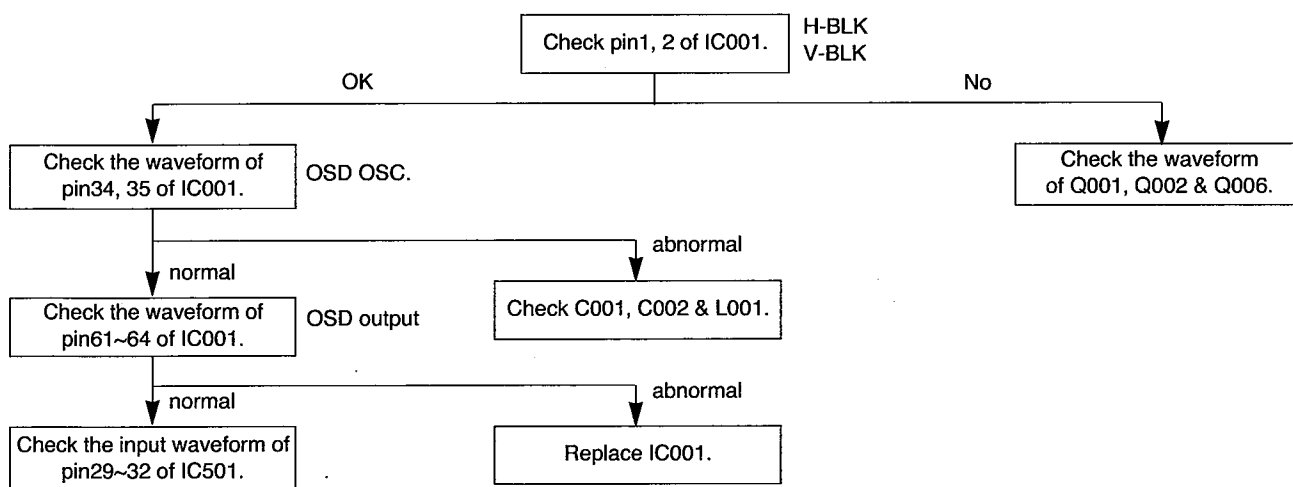
TROUBLESHOOTING



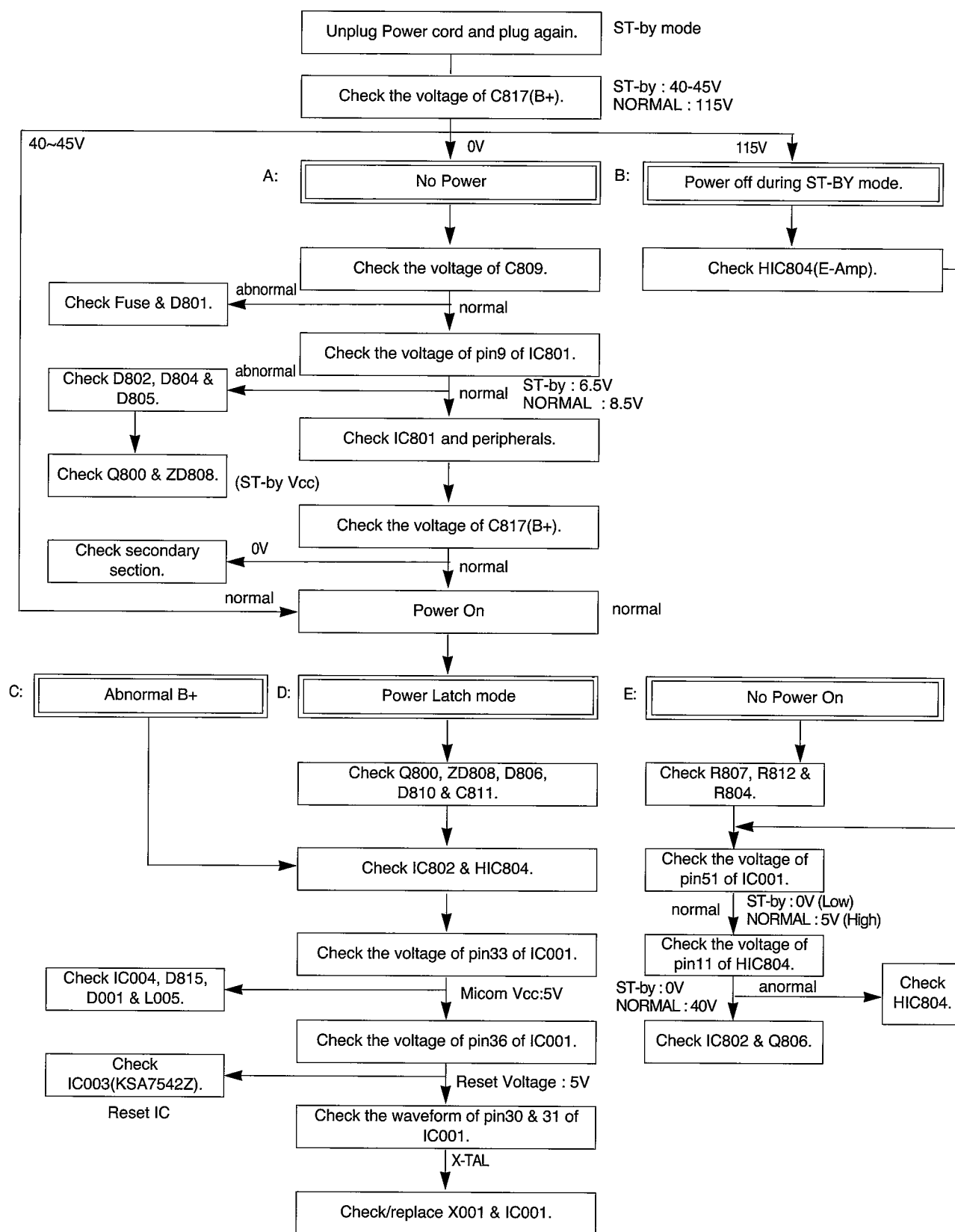
TROUBLESHOOTING (continued)



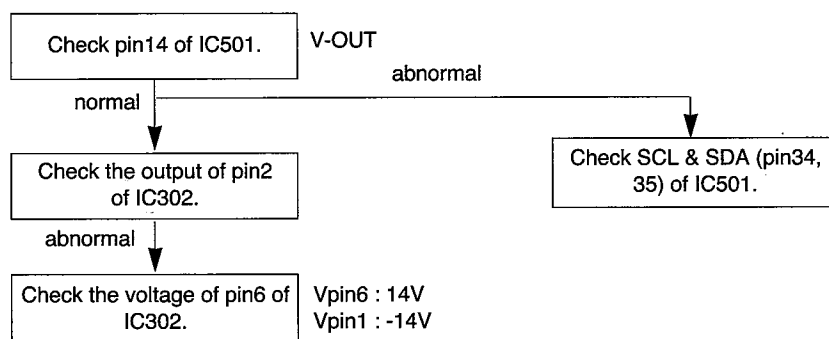
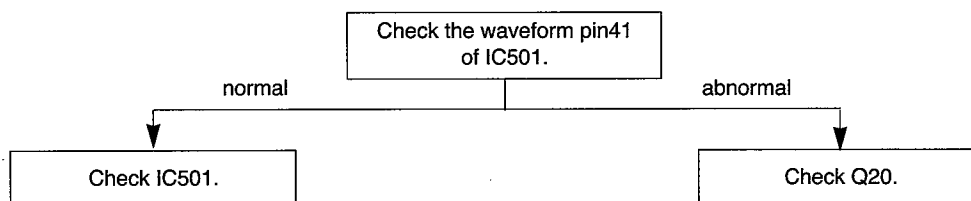
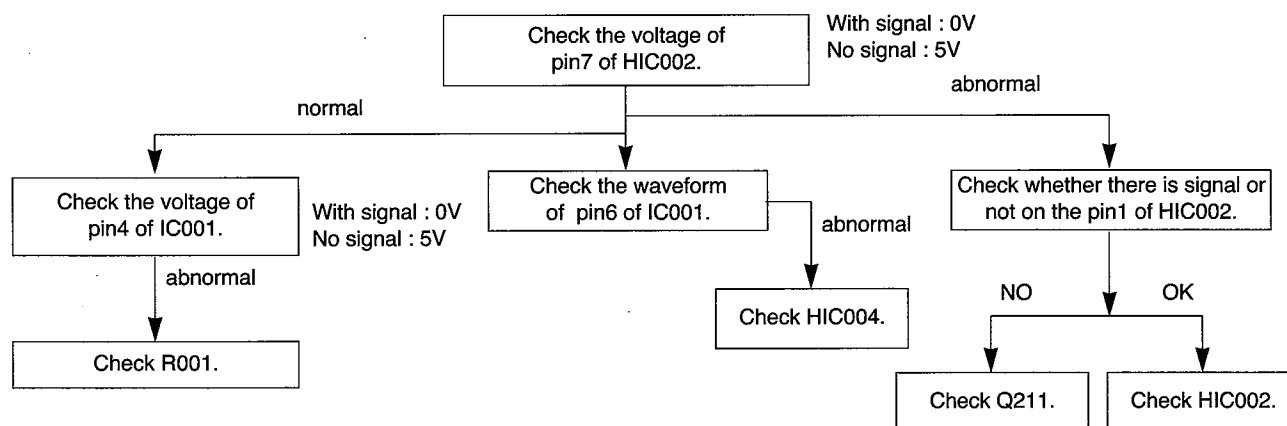
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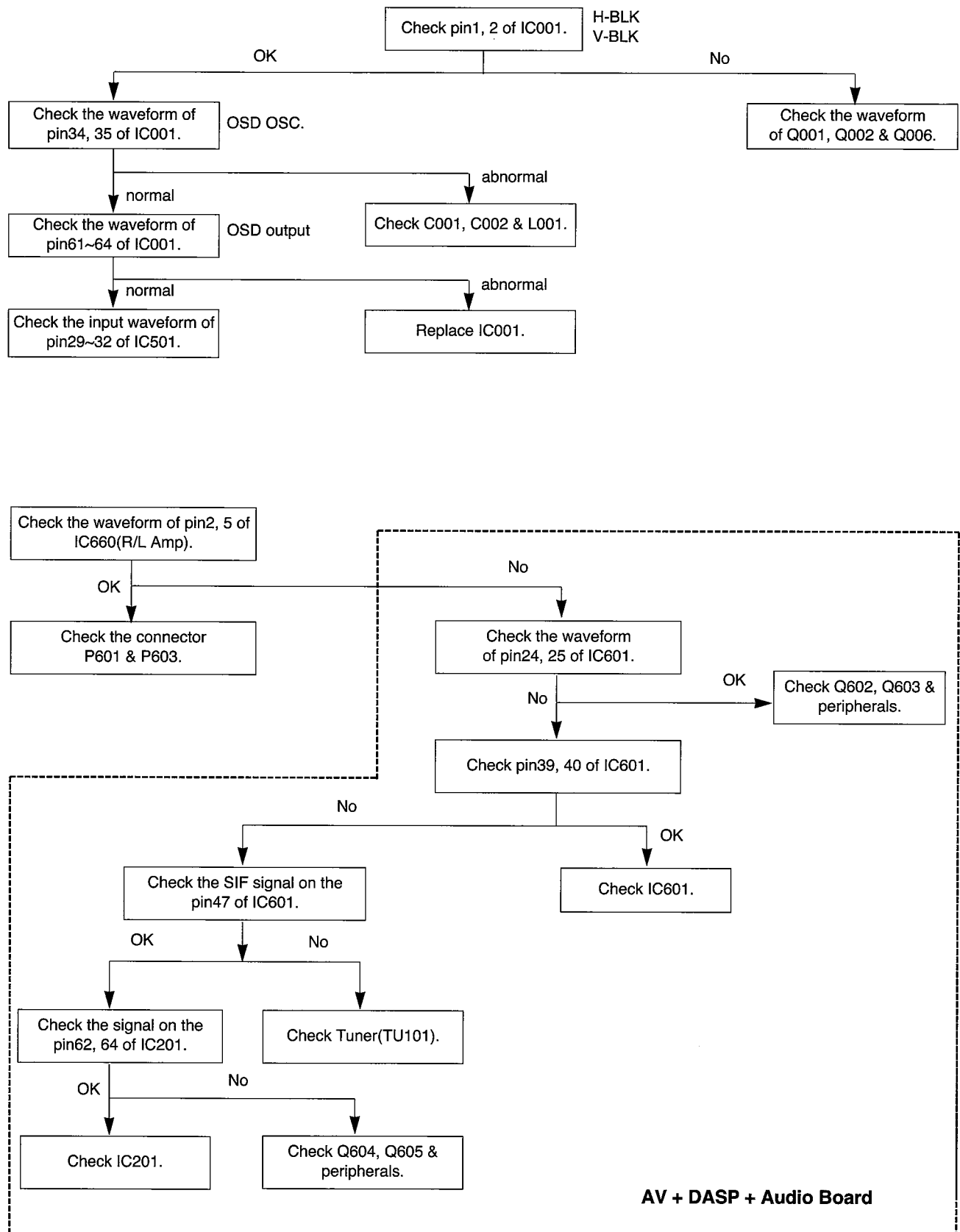
TROUBLESHOOTING



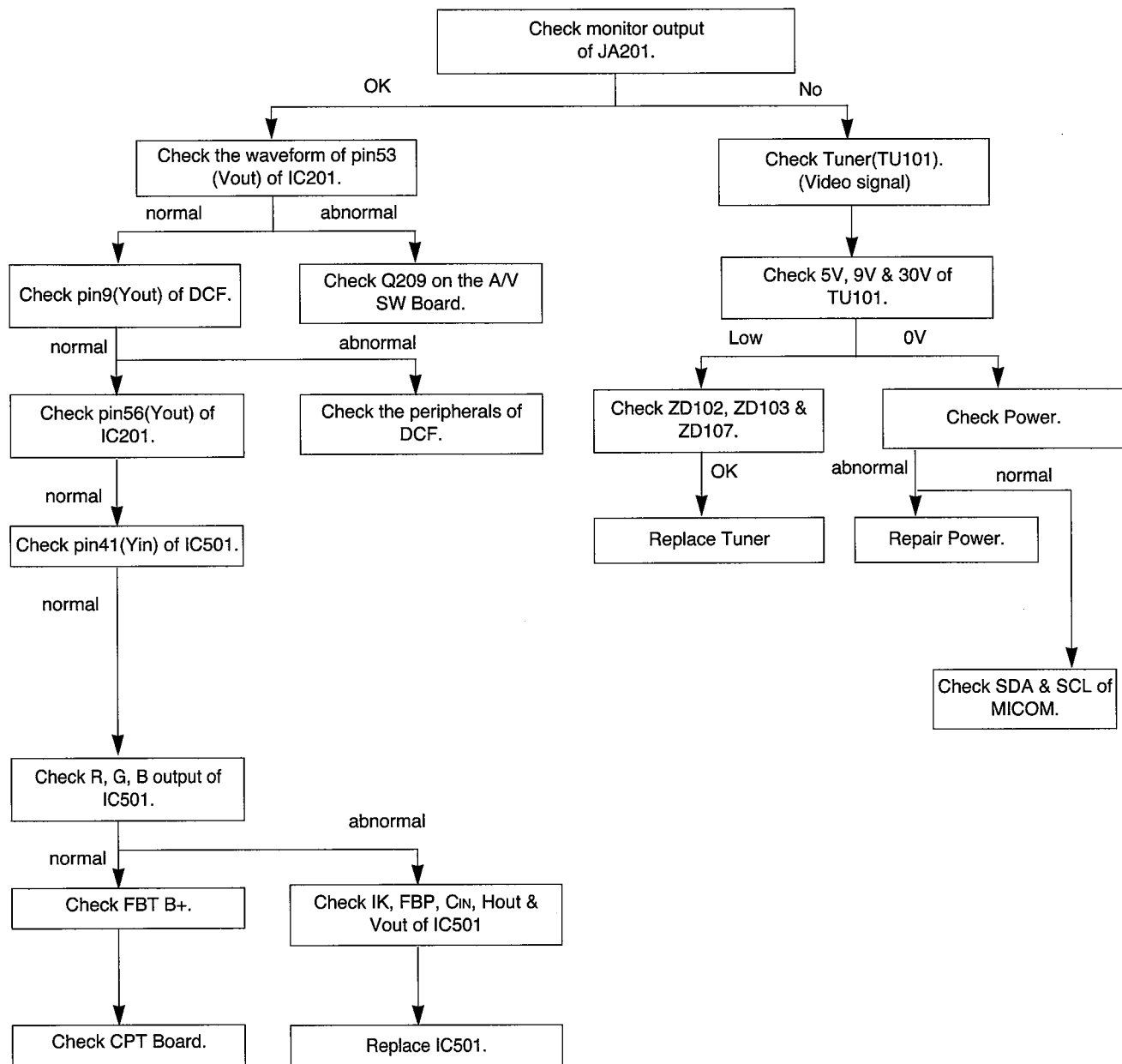
TROUBLESHOOTING (continued)



TROUBLESHOOTING (continued)



TROUBLESHOOTING (continued)



MODEL PARTS

IQB27FW

NUM.	PART NUM.	DESCRIPTION
1	959-10089	BUTTON,POWER
2	833-10020	FRAME ASSY
3	NSP	SPRING,COIL
4	NSP	INDICATOR,LED
5	959-10090	BUTTON,CONTROL
6	PART OF #9	WINDOW ASSY
7	905-10446	CY.YE. SENSOR MODULE
8	809-10373	PCB ASSY,SIDE A/V
9	814-10081	CABINET ASSY
10	812-10094	BRACKET,SPEAKER(LEFT)
11	849-10025	SPEAKER,GENERAL 8 OHM 15W
12	849-10021	SPEAKER,TWEETER 8 OHM 10
13	812-10093	BRACKET,SPEAKER(RIGHT)
14	849-10025	SPEAKER,GENERAL 8 OHM 15W
15	824-10090	COVER,SPEAKER
16	809-10374	PCB ASSY,CONTROL
17	809-10371	PCB ASSY,MAIN
18	812-10092	BRACKET,MAIN
19	809-10370	PCB ASSY,MAIN 2
20	809-10377	PCB ASSY,A/V
21	809-10376	PCB ASSY,DCF
22	809-10375	PCB ASSY,PIP
23	844-10055	JACK,A/V
24	900-10028	BARE CPT ASSY
25	811-10023	POWER CORD,UL L=250 W/ HOLD,HOUSING POWER
26	NSP	HOLDER,D-COIL
27	NSP	SCREW ASSY,HEXAGON HEAD(L:40, D:18)
28	820-10271	COIL,DEGAUSSING, CU 290 60T 8.7OHM
29	895-10086	DY,DC29SLFL1
30	822-10007	CPT EARTH
31	809-10372	PCB ASSY,CPT
32	878-10015	SOCKET,CPT PCS701A
33	812-10092	BRACKET,REAR A/V
34	NSP	SCREW,TAP TITE(P) D4 L16
35	824-10092	BACK COVER ASSY

NSP = Non-Stocked Part

COMPONENT PARTS LIST REFERENCE CHART

The following information is for models in and out of warranty.

To Order Parts: call 1-888-3-ZENITH

fax 1-888-6-ZENITH

By Mail: ZENITH NATIONAL PARTS
 SALES AND DISTRIBUTION CENTER
 P O Box 240007
 Huntsville, AL 35824-6407

COMPONENT PARTS LIST

IQB27FW

REF	PART#	DESCRIPTION
	812-10095	BRACKET HANDLE AF-303
	824-10091	COVER HANDLE AF-303 CN-29Q
	836-10001	HANDLE CN-29Q14P 40AF MC996
LD1	841-10081	HOLDER LED(MC51A,CF-29C60/25C60)
LD1	903-10142	LED DL-1LO (DIFFUSION TYPE)
SW1	918-10002	LINK POWER S/W(NC-18A)
1	959-10089	BUTTON POWER 1KEY ABS,HF-38
2	857-10280	FRAME ASSY CN-29Q14P 3210V00029
3	NSP	SPRING, COIL
4	NSP	INDICATOR, LED
5	959-10090	BUTTON CONTROL 6KEY ABS,HF-
6	PART OF #9	WINDOW ASSY
7	905-10446	CY.YE. SENSOR MODULE
8	809-10373	PWB (PCB) ASSY, SUB A/V NC-88F SIDE AV
9	814-10020	CABINET ASSY CN-29Q14P.APLMX , LG
10	812-10094	BRACKET MAIN 1 PP, DOME (LEFT)
11	849-10021	SPEAKER, GENERAL C151PX-373K14 LG C&D
11	849-10021	SPEAKER, GENERAL C151PX-373K14 LG C&D 8 OHM 15W
12	849-10021	SPEAKER, TWEETER C050TX-357K14 FOSTER
13	812-10093	BRACKET MAIN 1 PP, SPEAKER (RIGHT)
14	849-10025	SPEAKER, GENERAL, 8 OHM 15W
15	824-10090	COVER MAIN PP CF-29S30TM,
16	809-10374	PWB (PCB) ASSY, SUB CONT MC-996A CONT AS
17	809-10371	PWB (PCB) ASSY, MAIN MC-996A M/I ASS
18	812-10092	BRACKET, MAIN
19	809-10370	PWB (PCB) ASSY, MAIN2 MC-996A DEF+PO
20	809-10377	PWB (PCB) ASSY, SUB A/V MC-996A
21	809-10376	PWB (PCB) ASSY, SUB DCF MC-996A DIGITAL
22	809-10375	PWB (PCB) ASSY, SUB PIP MC-996A PIP ONLY
23	844-10055	JACK, A/V
24	900-10028	BARE CPT ASSY 2426GF239AP .
25	811-10023	POWER CORD, UL L=250 W/HOLD, HOUSING POWER
26	NSP	HOLDER, D-COIL
27	NSP	SCREW ASSY, HEXAGON HEAD (L:40, D:18)
28	820-10271	COIL, DEGAUSSING,CU 29" 60T 8.70HM
29	895-10086	DY (DEFLECTION YOKE) DC29SLFL1
30	882-10007	LEAD SET CPT EARTH INCH 29,C
31	809-10372	PWB (PCB) ASSY, SUB CPT /VM MC996A .
32	878-10015	SOCKET, CPT PCS701A
33	812-10092	BRACKET REAR A/V ASSY HIPS,6
34	NSP	SCREW, TAP TITE(P) D4 L16
35	814-10093	BACK COVER ASSY
400	824-10092	BACK COVER ASSY CN-29Q14P APLMX 3808
501	812-10091	BRACKET CN-29Q14P HIPS,40AF
700	905-10446	IC, 8 PIN BK HIC, (CY.YE. SENSOR MO
900	924-10060	REMOTE CONTROLLER MC996A . CN-29Q14P .
913	NSP	SCREW ASSY, HEXAGON HEAD
943	NSP	SCREW, TRUSS HEAD TAP TITE
A1	206-03529	MANUAL, OPERATION MC996A CN-29Q14P ZENITH(IQB27FW) EN
A4	895-10014	ADAPTER ANT.(300 TO 75) NTSC
C001	822-10986	CAP, CERAMIC,(TEMP COMP) 30P 50V
C002	822-06714	CAP, CERAMIC,(TEMP COMP) 24P 50V
C003	822-10254	CAP, AL.ELECTRO 10UF STD 16V
C004	822-11047	CAP, CHIP, CERAMIC, M/L 100PF 50V
C005	822-10282	CAP, AL.ELECTRO 47UF STD 16V

REF	PART#	DESCRIPTION
C006	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
C007	822-10283	CAP, AL.ELECTRO 100UF STD 16V
C008	822-10283	CAP, AL.ELECTRO 100UF STD 16V
C009	822-11038	CAP, CHIP, CERAMIC, M/L 10000P 50V
C010	822-11048	CAP, CHIP, CERAMIC, M/L 13PF 50V
C011	822-10139	CAP, TUBULAR (HIGH DIELE) 220P 50V
C013	822-10291	CAP, AL.ELECTRO 0.4700UF STD 50V
C014	822-11054	CAP, CHIP, CERAMIC, M/L 470PF 50V
C015	822-10292	CAP, ELECTRO 1UF STD 50V
C016	822-11052	CAP, CHIP, CERAMIC, M/L 33PF 50V
C017	822-11038	CAP, CHIP, CERAMIC, M/L 10000P 50V
C018	822-10294	CAP, AL.ELECTRO 4.7000UF STD 50V
C019	822-10291	CAP, AL.ELECTRO 0.4700UF STD 50V
C020	822-10292	CAP, AL.ELECTRO 1UF STD 50V
C021	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
C022	822-10291	CAP, AL.ELECTRO 0.4700UF STD 50V
C023	822-10346	CAP, ELECTRO 100UF STD 10V
C024	822-11038	CAP, CHIP, CERAMIC, M/L 10000P 50V
C025	822-10292	CAP, AL.ELECTRO 1UF STD 50V
C026	822-11061	CAP, TUBULAR (HIGH DIELE) 3900P 16V
C027	822-10294	CAP, ELECTRO 4.7000UF STD 50V
C028	822-10282	CAP, AL.ELECTRO 47UF STD 16V
C029	822-11059	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
C030	822-11035	CAP, ELECTRO 470UF STD 10V
C031	822-10282	CAP, ELECTRO 47UF STD 16V
C032	822-10139	CAP, TUBULAR (HIGH DIELE) 220P 50V
C033	822-11035	CAP, ELECTRO 470UF STD 10V
C034	822-11056	CAP, CHIP, CERAMIC, M/L 68PF 50V
C035	822-10289	CAP, AL.ELECTRO 0.1000UF STD 50V
C037	822-11051	CAP, CHIP, CERAMIC, M/L 30PF 50V
C038	822-11056	CAP, CHIP, CERAMIC, M/L 68PF 50V
C040	822-10282	CAP, ELECTRO 47UF STD 16V
C041	822-11051	CAP, CHIP, CERAMIC, M/L 30PF 50V
C042	822-10292	CAP, ELECTRO 1UF STD 50V
C043	822-11032	CAP, AL.ELECTRO 47UF STD 10V
C044	822-11035	CAP, AL.ELECTRO 470UF STD 10V
C048	822-11047	CAP, CHIP, CERAMIC, M/L 100PF 50V
C049	822-11050	CAP, CHIP, CERAMIC, M/L 27PF 50V
C050	822-11050	CAP, CHIP, CERAMIC, M/L 27PF 50V
C051	822-11053	CAP, CHIP, CERAMIC, M/L 47PF 50V
C052	822-11053	CAP, CHIP, CERAMIC, M/L 47PF 50V
C053	822-11053	CAP, CHIP, CERAMIC, M/L 47PF 50V
C054	822-11053	CAP, CHIP, CERAMIC, M/L 47PF 50V
C055	822-10346	CAP, ELECTRO 100UF STD 10V
C056	822-11039	CAP, CHIP, CERAMIC, M/L 0.1000UF 50V
C057	822-11031	CAP, AL.ELECTRO 4.7000UF SM 50V
C058	822-11062	CAP, POLYESTER 0.1000UF S 50V
C059	822-10293	CAP, AL.ELECTRO 2.2000UF STD 50V
C060	822-11039	CAP, CHIP, CERAMIC, M/L 0.1000UF 50V
C061	822-10293	CAP, AL.ELECTRO 2.2000UF STD 50V
C062	822-11039	CAP, CHIP, CERAMIC, M/L 0.1000UF 50V
C063	822-10346	CAP, ELECTRO 100UF STD 10V
C064	822-11039	CAP, CHIP, CERAMIC, M/L 0.1000UF 50V
C065	822-11039	CAP, CHIP, CERAMIC, M/L 0.1000UF 50V
C066	822-10346	CAP, ELECTRO 100UF STD 10V
C067	822-11032	CAP, AL.ELECTRO 47UF STD 10V



Critical safety components are identified by the letter "X" in their component designators and are shaded. Replace only with part numbers specified.

COMPONENT PARTS LIST

IQB27FW

REF	PART#	DESCRIPTION
C068	822-10346	CAP, ELECTRO 100UF STD 10V
C069	822-11039	CAP, CHIP, CERAMIC, M/L 0.1000UF 50V
C077	822-11032	CAP, AL.ELECTRO 47UF STD 10V
C078	822-11062	CAP, POLYESTER 0.1000UF S 50V
C079	822-11038	CAP, CHIP, CERAMIC, M/L 10000P 50V
C080	822-11038	CAP, CHIP, CERAMIC, M/L 10000P 50V
C081	822-11042	CAP, CHIP, CERAMIC, M/L 0.2200UF 16V
C1	822-10254	CAP, ELECTRO 10UF STD 16V
C10	822-11048	CAP, CHIP, CERAMIC, M/L TC 13PF 50V
C101	822-10351	CAP, POLYESTER(MYLAR) 0.0068U 100V
C102	822-10287	CAP, POLYESTER(MYLAR) 0.4700UF S 50V
C103	822-10292	CAP, ELECTRO 1UF STD 50V
C105	822-10293	CAP, ELECTRO 2.2000UF STD 50V
C106	822-10147	CAP, POLYESTER(MYLAR) 0.01U 100V
C107	822-10294	CAP, ELECTRO 4.7000UF STD 50V
C108	822-10282	CAP, ELECTRO 47UF STD 16V
C109	822-10257	CAP, ELECTRO 470UF STD 16V
C110	822-10257	CAP, ELECTRO 470UF STD 16V
C111	822-10256	CAP, ELECTRO 220UF STD 16V
C112	822-10294	CAP, ELECTRO 4.7000UF STD 50V
C113	822-10294	CAP, ELECTRO 4.7000UF STD 50V
C114	822-10256	CAP, ELECTRO 220UF STD 16V
C115	822-10282	CAP, ELECTRO 47UF STD 16V
C116	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
C117	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
C118	822-10274	CAP, ELECTRO 1000UF STD 16V
C119	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
C120	822-11059	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
C1208	822-10294	CAP, ELECTRO 4.7000UF STD 50V
C1209	822-10294	CAP, ELECTRO 4.7000UF STD 50V
C121	822-11059	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
C1210	822-10282	CAP, ELECTRO 47UF STD 16V
C1211	822-10282	CAP, ELECTRO 47UF STD 16V
C1213	822-10256	CAP, ELECTRO 220UF STD 16V
C1214	822-11062	CAP, POLYESTER(MYLAR) 0.1000UF S 50V
C1215	822-10287	CAP, POLYESTER(MYLAR) 0.4700UF S 50V
C1216	822-10287	CAP, POLYESTER(MYLAR) 0.4700UF S 50V
C122	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
C123	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
C13	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C14	822-11054	CAP, CHIP 470PF 50V
C15	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C16	822-11052	CAP, CHIP, CERAMIC, M/L TC 33PF 50V
C17	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C18	822-10294	CAP, ELECTRO 4.7000UF STD 50V
C19	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C2	822-10254	CAP, ELECTRO 10UF STD 16V
C20	822-10292	CAP, ELECTRO 1UF STD 50V
C202	822-11069	CAP, TUBULA(T.C) 22P 50V
C203	822-11047	CAP, CHIP 100PF 50V
C204	822-11047	CAP, CHIP 100PF 50V
C205	822-10256	CAP, ELECTRO 220UF STD 16V
C206	822-11027	CAP, ELECTRO 220UF STD 10V
C207	822-10256	CAP, ELECTRO 220UF STD 16V
C208	822-11047	CAP, CHIP 100PF 50V
C209	822-10292	CAP, ELECTRO 1UF STD 50V

REF	PART#	DESCRIPTION
C21	822-10286	CAP, TUBULAR (HIGH DIELE) 4700P 16V
C210	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
C212	822-10294	CAP, ELECTRO 4.7000UF STD 50V
C214	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
C215	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
C217	822-11027	CAP, ELECTRO 220UF STD 10V
C218	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
C219	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C22	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C220	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C221	822-10292	CAP, ELECTRO 1UF STD 50V
C222	822-10292	CAP, ELECTRO 1UF STD 50V
C223	822-11047	CAP, CHIP 100PF 50V
C224	822-11047	CAP, CHIP 100PF 50V
C225	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C226	822-10292	CAP, ELECTRO 1UF STD 50V
C227	822-10292	CAP, ELECTRO 1UF STD 50V
C229	822-10257	CAP, ELECTRO 470UF STD 16V
C23	822-10282	CAP, ELECTRO 47UF STD 16V
C230	822-10294	CAP, ELECTRO 4.7000UF STD 50V
C231	822-10294	CAP, ELECTRO 4.7000UF STD 50V
C232	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C233	822-10292	CAP, ELECTRO 1UF STD 50V
C234	822-10292	CAP, ELECTRO 1UF STD 50V
C235	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C236	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C237	822-10342	CAP, ELECTRO 22UF STD 50V
C238	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
C24	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C240	822-10257	CAP, ELECTRO 470UF STD 16V
C242	822-10292	CAP, ELECTRO 1UF STD 50V
C243	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C245	822-10292	CAP, ELECTRO 1UF STD 50V
C246	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C247	822-10292	CAP, ELECTRO 1UF STD 50V
C25	822-10292	CAP, ELECTRO 1UF STD 50V
C250	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C254	822-10292	CAP, ELECTRO 1UF STD 50V
C257	822-10282	CAP, ELECTRO 47UF STD 16V
C258	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C259	822-10294	CAP, ELECTRO 4.7000UF STD 50V
C260	822-10294	CAP, ELECTRO 4.7000UF STD 50V
C261	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C262	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C263	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C264	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C270	822-10283	CAP, ELECTRO 100UF STD 16V
C28	822-10282	CAP, ELECTRO 47UF STD 16V
C2902	822-10007	CAP, CERAMIC,(HIGH DIELE) 0.1M 50V
C2909	822-11037	CAP, ELECTRO 0.6800UF STD 50V
C2910	822-10136	CAP, TUBULAR (HIGH DIELE) 100P 50V
C2911	822-10136	CAP, TUBULAR (HIGH DIELE) 100P 50V
C2912	822-11058	CAP, CERAMIC,(HIGH DIELE) 4700P 500V
C2913	822-11058	CAP, CERAMIC,(HIGH DIELE) 4700P 500V
C2914	822-10353	CAP, ELECTRO 10UF STD 160V M
C2915	822-10263	CAP, ELECTRO 47UF STD 50V



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COMPONENT PARTS LIST

IQB27FW

REF	PART#	DESCRIPTION
C2917	822-10265	CAP, ELECTRO 10UF STD 100V
C2918	822-10265	CAP, ELECTRO 10UF STD 100V
C2919	822-10265	CAP, ELECTRO 10UF STD 100V
C2920	822-11059	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
C2921	822-10845	CAP, TUBULAR (HIGH DIELE) 180P 50V
C2922	822-11071	CAP, TUBULA(T.C) 62P 50V
C3	822-10254	CAP, ELECTRO 10UF STD 16V
C301	822-11064	CAP, POLYESTER(MYLAR) 0.33 100V
C302	822-11024	CAP, ELECTRO 100UF STD 50V
C303	822-11020	CAP, ELECTRO 1000UF STD 25V
C304	822-11020	CAP, ELECTRO 1000UF STD 25V
C305	822-10145	CAP, POLYESTER(MYLAR) 0.033U 100V
C306	822-11033	CAP, ELECTRO 47UF STD 25V
C307	822-11022	CAP, ELECTRO 10UF STD 25V
C31	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C315	822-11008	CAP, MPE 50V 0.22UF J
C34	822-11056	CAP, CHIP 68PF 50V
C35	822-10289	CAP, ELECTRO 0.1000UF STD 50V
C37	822-11051	CAP, CHIP 30PF 50V
C38	822-11056	CAP, CHIP 68PF 50V
C4	822-11047	CAP, CHIP 100PF 50V
C401	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C403	822-10155	CAP, CERAMIC, (HIGH DIELE) 2200P 500V
C404	822-11025	CAP, ELECTRO 22UF KME 100V M
C406	822-10151	CAP, CERAMIC, (HIGH DIELE) 560P 500V
C407	822-11077	CAP, MPP 1600V 0.015UF J
C409	822-11024	CAP, ELECTRO 100UF STD 50V
C41	822-11051	CAP, CHIP 30PF 50V
C413	822-11067	CAP, POLYESTER 0.027UF D 630V
C417	822-11036	CAP, ELECTRO 5.6000UF SM 50V
C42	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
C422	822-11026	CAP, ELECTRO 220UF SMS 200V
C423	822-11024	CAP, ELECTRO 100UF STD 50V
C424	822-10269	CAP, CERAMIC, (HIGH DIELE) 560P 1KV
C425	822-11063	CAP, POLYESTER(MYLAR) 0.22U 100V
C426	822-06666	CAP, POLYESTER(MYLAR) 0.056U 100V
C427	822-11078	CAP, MPP 1600V 0.0091uF H
C428	822-10269	CAP, CERAMIC, (HIGH DIELE) 560P 1KV
C429	822-10269	CAP, CERAMIC, (HIGH DIELE) 560P 1KV
C43	822-11032	CAP, ELECTRO 47UF STD 10V
C430	822-11020	CAP, ELECTRO 1000UF STD 25V
C432	822-11020	CAP, ELECTRO 1000UF STD 25V
C434	822-10269	CAP, CERAMIC, (HIGH DIELE) 560P 1KV
C435	822-10269	CAP, CERAMIC, (HIGH DIELE) 560P 1KV
C436	822-10281	CAP, ELECTRO 47UF STD 250V
C437	822-10989	CAP, ELECTRO 100UF STD 35V
C44	822-11035	CAP, ELECTRO 470UF STD 10V
C441	822-11076	CAP, MPP 1600V 0.0047UF J
C442	822-11080	CAP, 2KV R 471K TP7.5
C443	822-10147	CAP, POLYESTER(MYLAR) 0.01U 100V
C444	822-11073	CAP, PP 630V 0.068UF
C445	822-11075	CAP, MPP 400V 0.22UF
C48	822-11047	CAP, CHIP 100PF 50V
C49	822-11050	CAP, CERA. 27PF 50V
C5	822-10282	CAP, ELECTRO 47UF STD 16V
C50	822-11050	CAP, CERA. 27PF 50V

REF	PART#	DESCRIPTION
C500	822-10257	CAP, ELECTRO 470UF STD 16V
C501	822-10308	CAP, POLYESTER(MYLAR) 0.2200UF S 50V
C505	822-10292	CAP, ELECTRO 1UF STD 50V
C506	822-11059	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
C507	822-10283	CAP, ELECTRO 100UF STD 16V
C508	822-11062	CAP, POLYESTER(MYLAR) 0.1000UF S 50V
C509	822-11062	CAP, POLYESTER(MYLAR) 0.1000UF S 50V
C51	822-11053	CAP, CHIP, CERAMIC, M/L TC 47PF 50V
C510	822-11062	CAP, POLYESTER(MYLAR) 0.1000UF S 50V
C512	822-11062	CAP, POLYESTER(MYLAR) 0.1000UF S 50V
C513	822-11062	CAP, POLYESTER(MYLAR) 0.1000UF S 50V
C515	822-07026	CAP, CERAMIC, (TEMP COMP) 39P 50V
C517	822-11062	CAP, POLYESTER(MYLAR) 0.1000UF S 50V
C518	822-11062	CAP, POLYESTER(MYLAR) 0.1000UF S 50V
C519	822-10292	CAP, ELECTRO 1UF STD 50V
C52	822-11053	CAP, CHIP, CERAMIC, M/L TC 47PF 50V
C520	822-10294	CAP, ELECTRO 4.7000UF STD 50V
C521	822-10998	CAP, TUBULAR (HIGH DIELE) 1000P 50V
C522	822-11062	CAP, POLYESTER(MYLAR) 0.1000UF S 50V
C523	822-10294	CAP, ELECTRO 4.7000UF STD 50V
C524	822-11059	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
C525	822-10283	CAP, ELECTRO 100UF STD 16V
C526	822-10256	CAP, ELECTRO 220UF STD 16V
C527	822-10292	CAP, ELECTRO 1UF STD 50V
C529	822-11062	CAP, POLYESTER(MYLAR) 0.1000UF S 50V
C53	822-11053	CAP, CHIP, CERAMIC, M/L TC 47PF 50V
C530	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
C531	822-10292	CAP, ELECTRO 1UF STD 50V
C533	822-10282	CAP, ELECTRO 47UF STD 16V
C536	822-10998	CAP, TUBULAR (HIGH DIELE) 1000P 50V
C538	822-10843	CAP, TUBULAR (HIGH DIELE) 4700P 16V
C54	822-11053	CAP, CHIP, CERAMIC, M/L TC 47PF 50V
C544	822-10257	CAP, ELECTRO 470UF STD 16V
C545	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
C546	822-10292	CAP, ELECTRO 1UF STD 50V
C55	822-10346	CAP, ELECTRO 100UF STD 10V
C551	822-11070	CAP, TUBULA(T.C) 47P 50V
C552	822-10138	CAP, TUBULAR (HIGH DIELE) 470P 50V
C556	822-10283	CAP, ELECTRO 100UF STD 16V
C559	822-10292	CAP, ELECTRO 1UF STD 50V
C56	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
C560	822-11059	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
C57	822-11031	CAP, ELECTRO 4.7UF SM 50V M
C58	822-11062	CAP, POLYESTER(MYLAR) 0.1000UF S 50V
C59	822-10293	CAP, ELECTRO 2.2000UF STD 50V
C60	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
C601	822-11055	CAP, CHIP, CERAMIC, M/L TC 56PF 50V
C602	822-11055	CAP, CHIP, CERAMIC, M/L TC 56PF 50V
C603	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C604	822-10282	CAP, ELECTRO 47UF STD 16V
C605	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C606	822-10995	CAP, ELECTRO 3.3000UF STD 50V
C607	822-11043	CAP, CHIP[CERAM 2700PF 50V
C608	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C609	822-11043	CAP, CHIP[CERAM 2700PF 50V
C61	822-10293	CAP, ELECTRO 2.2000UF STD 50V



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COMPONENT PARTS LIST

IQB27FW

REF	PART#	DESCRIPTION
C610	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C612	822-10282	CAP, ELECTRO 47UF STD 16V
C613	822-11044	CAP, CHIP, CERAMIC, M/L HD 6800P 50V
C614	822-11044	CAP, CHIP, CERAMIC, M/L HD 6800P 50V
C615	822-11044	CAP, CHIP, CERAMIC, M/L HD 6800P 50V
C616	822-11044	CAP, CHIP, CERAMIC, M/L HD 6800P 50V
C62	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
C621	822-10254	CAP, ELECTRO 10UF STD 16V
C624	822-10254	CAP, ELECTRO 10UF STD 16V
C625	822-10995	CAP, ELECTRO 3.3000UF STD 50V
C626	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
C629	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C63	822-10346	CAP, ELECTRO 100UF STD 10V
C630	822-10291	CAP, ELECTRO 0.4700UF STD 50V
C631	822-10254	CAP, ELECTRO 10UF STD 16V
C632	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C634	822-10254	CAP, ELECTRO 10UF STD 16V
C635	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C636	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C637	822-11055	CAP, CHIP, CERAMIC, M/L TC 56PF 50V
C638	822-11045	CAP, CHIP CERAMIC, M/L T.C R/S 1PF 50V
C639	822-11045	CAP, CHIP CERAMIC, M/L T.C R/S 1PF 50V
C64	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
C641	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C644	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C65	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
C652	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
C653	822-11055	CAP, CHIP, CERAMIC, M/L TC 56PF 50V
C655	822-11040	CAP, CHIP CERAMIC, M/L H.D R/S 2200P 50V
C656	822-11040	CAP, CHIP CERAMIC, M/L H.D R/S 2200P 50V
C658	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
C659	822-10282	CAP, ELECTRO 47UF STD 16V
C66	822-10346	CAP, ELECTRO 100UF STD 10V
C660	822-10279	CAP, ELECTRO 1000UF STD 35V
C661	822-10279	CAP, ELECTRO 1000UF STD 35V
C662	822-11062	CAP, POLYESTER(MYLAR) 0.1000UF S 50V
C663	822-11153	CAP, CERAMIC, (HIGH DIELE) 0.01M 50V
C664	822-11062	CAP, POLYESTER(MYLAR) 0.1000UF S 50V
C665	822-11023	CAP, ELECTRO 100UF STD 25V
C666	822-10254	CAP, ELECTRO 10UF STD 16V
C667	822-10147	CAP, POLYESTER(MYLAR) 0.01U 100V
C668	822-10292	CAP, ELECTRO 1UF STD 50V
C669	822-10147	CAP, POLYESTER(MYLAR) 0.01U 100V
C67	822-11032	CAP, ELECTRO 47UF STD 10V
C670	822-10254	CAP, ELECTRO 10UF STD 16V
C671	822-10262	CAP, ELECTRO 10UF STD 50V
C672	822-11023	CAP, ELECTRO 100UF STD 25V
C673	822-10262	CAP, ELECTRO 10UF STD 50V
C674	822-11028	CAP, ELECTRO 2200UF STD 50V
C68	822-10346	CAP, ELECTRO 100UF STD 10V
C681	822-10254	CAP, ELECTRO 10UF STD 16V
C69	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
C697	822-10257	CAP, ELECTRO 470UF STD 16V
C698	822-10257	CAP, ELECTRO 470UF STD 16V
C7	822-10283	CAP, ELECTRO 100UF STD 16V
C77	822-11032	CAP, ELECTRO 47UF STD 10V

REF	PART#	DESCRIPTION
C78	822-11062	CAP, POLYESTER(MYLAR) 0.1000UF S 50V
C79	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C8	822-10283	CAP, ELECTRO 100UF STD 16V
C80	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C801	822-11066	CAP, POLYESTER A.C 275V 0.47UF
C802	822-10295	CAP, POLYESTER A.C 275V 0.22UF
C804	822-11079	CAP, 1KV R 102K
C805	822-11079	CAP, 1KV R 102K
C806	822-11079	CAP, 1KV R 102K
C807	822-11079	CAP, 1KV R 102K
C808	822-11065	CAP, POLYESTER A.C 275V 0.1UF M (S=15)
C809	822-11072	CAP, ELECTRO 400V 470UF M
C81	822-11042	CAP, CHIP CERAMIC, M/L H.D R/S 0.2200UF 16V
C810	822-11034	CAP, ELECTRO 470UF KME TYPE 25V
C811	822-10258	CAP, ELECTRO 220UF STD 25V
C812	822-10264	CAP, ELECTRO 22UF STD 100V
C813	822-10153	CAP, CERAMIC, (HIGH DIELE) 1000P 500V
C814	822-11074	CAP, PP 1600V 0.0033UF
C815	822-11016	CAP, 1KV R 471K
C817	822-10320	CAP, ELECTRO 200V 470UF M
C818	822-11081	CAP, HR 160V 33UF TP
C819	822-10259	CAP, ELECTRO 330UF STD 25V
C820	822-11016	CAP, 1KV R 471K
C821	822-11016	CAP, 1KV R 471K
C822	822-11016	CAP, 1KV R 471K
C823	822-11016	CAP, 1KV R 471K
C825	822-11030	CAP, ELECTRO 3300M SMS 25V
C826	822-10994	CAP, ELECTRO 2200UF STD 25V
C827	822-10274	CAP, ELECTRO 1000UF STD 16V
C828	822-10276	CAP, ELECTRO 470UF STD 25V
C829	822-11028	CAP, ELECTRO 2200UF STD 50V
C830	822-11028	CAP, ELECTRO 2200UF STD 50V
C832	822-11029	CAP, ELECTRO 33UF STD 160V
C833	822-02902	CAP, POLYESTER(MYLAR) 0.1U 100V
C838	822-10316	CAP, CERAMIC, (HIGH DIELE) 470P 500V
C840	822-11016	CAP, 1KV R 471K
C842	822-10274	CAP, ELECTRO 1000UF STD 16V
C843	822-10274	CAP, ELECTRO 1000UF STD 16V
C844	822-10264	CAP, ELECTRO 22UF STD 100V
C850	822-11083	CAP, ACT 4KV
C851	822-11083	CAP, ACT 4KV
C861	822-11082	CAP, ACT 4KV
C862	822-11082	CAP, ACT 4KV
C899	822-11016	CAP, 1KV R 471K
C9	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
C900	822-10997	CAP, ELECTRO 4.7000UF STD 250V
C901	822-10997	CAP, ELECTRO 4.7000UF STD 250V
C902	822-10997	CAP, ELECTRO 4.7000UF STD 250V
C903	822-10044	CAP, CERAMIC, (TEMP COMP) 12P 50V
C904	822-10997	CAP, ELECTRO 4.7000UF STD 250V
C905	822-10151	CAP, CERAMIC, (HIGH DIELE) 560P 500V
C906	822-11059	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
C907	822-11059	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
C908	822-10997	CAP, ELECTRO 4.7000UF STD 250V
C909	822-11021	CAP, CERAMIC, (TEMP COMP) 8P 50V
C910	822-10293	CAP, ELECTRO 2.2000UF STD 50V



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COMPONENT PARTS LIST

IQB27FW

REF	PART#	DESCRIPTION
C911	822-11059	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
C912	822-11059	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
C914	822-10274	CAP, ELECTRO 1000UF STD 16V
C915	822-10151	CAP, CERAMIC, (HIGH DIELE) 560P 500V
C916	822-11057	CAP, CERAMIC, (H 2200PF 2KV K B TR
C917	822-11059	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
C918	822-10044	CAP, CERAMIC, (TEMP COMP) 12P 50V
C919	822-10151	CAP, CERAMIC, (HIGH DIELE) 560P 500V
C921	822-10282	CAP, ELECTRO 47UF STD 16V
C925	822-11059	CAP, TUBULAR (HIGH DIELE) 0.1M 50V
CD01	822-10282	CAP, AL.ELECTRO 47UF STD 16V
CD02	822-11046	CAP, CHIP, CERAMIC, M/L 10PF 50V
CD03	822-11049	CAP, CHIP, CERAMIC, M/L 15PF 50V
CD04	822-10282	CAP, AL.ELECTRO 47UF STD 16V
CD05	822-11050	CAP, CHIP, CERAMIC, M/L 27PF 50V
CD06	822-10294	CAP, AL.ELECTRO 4.7000UF STD 50V
CD08	822-10282	CAP, AL.ELECTRO 47UF STD 16V
CD09	822-10282	CAP, AL.ELECTRO 47UF STD 16V
CD1	822-10282	CAP, ELECTRO 47UF STD 16V
CD10	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
CD11	822-10282	CAP, ELECTRO 47UF STD 16V
CD13	822-10282	CAP, ELECTRO 47UF STD 16V
CD15	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
CD16	822-11046	CAP, CHIP, CERAMIC, M/L TC 10PF 50V
CD17	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
CD18	822-10346	CAP, ELECTRO 100UF STD 10V
CD19	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
CD2	822-11046	CAP, CHIP, CERAMIC, M/L TC 10PF 50V
CD24	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
CD26	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
CD28	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
CD3	822-11049	CAP, CHIP 15PF 50V
CD30	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
CD31	822-10135	CAP, TUBULAR (HIGH DIELE) 0.01MF 16V
CD32	822-10282	CAP, ELECTRO 47UF STD 16V
CD33	863-07330	RESISTOR, CHIP 0 1/10W 5
CD34	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
CD35	863-07330	RESISTOR, CHIP 0 1/10W 5
CD36	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
CD37	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
CD38	822-11046	CAP, CHIP, CERAMIC, M/L TC 10PF 50V
CD39	822-11055	CAP, CHIP, CERAMIC, M/L TC 56PF 50V
CD4	822-10282	CAP, ELECTRO 47UF STD 16V
CD40	822-11046	CAP, CHIP, CERAMIC, M/L TC 10PF 50V
CD41	822-11039	CAP, CHIP, CERAMIC, M/L HD 0.1000UF 50V
CD42	822-11038	CAP, CHIP CERAMIC, M/L H.D R/S 10000P 50V
CD5	822-11050	CAP, CERA. 27PF 50V
CD6	822-10294	CAP, ELECTRO 4.7000UF STD 50V
CD62	822-11041	CAP, CHIP CERAMIC, M/L H.D R/S 22000P 50V
CD8	822-10282	CAP, ELECTRO 47UF STD 16V
CD9	822-10282	CAP, ELECTRO 47UF STD 16V
D0001	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0002	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0003	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0006	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0008	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM

REF	PART#	DESCRIPTION
D0009	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0015	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0301	903-10043	DIODE, GP15J TP (1.5A/600V) GI
D0304	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0306	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0308	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0400	903-10369	DIODE, ESC011M-15
D0402	903-10369	DIODE, ESC011M-15
D0406	903-10370	DIODE, EU1AV 600V 0.25A
D0407	903-10045	DIODE, RGP15J TA
D0408	903-10045	DIODE, RGP15J TA
D0411	903-10370	DIODE, EU1AV 600V 0.25A
D0412	903-10370	DIODE, EU1AV 600V 0.25A
D0414	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0441	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0501	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0502	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0506	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0507	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0510	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0601	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0602	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0603	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0604	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0609	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0665	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0666	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0667	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0801	903-10372	DIODE, RECTIFIER D5SB60 BRIDGE (5A/600V)
D0802	903-10370	DIODE, EU1AV 600V 0.25A
D0803	903-10130	DIODE, EU1ZV,TP(52MM)
D0804	903-10130	DIODE, EU1ZV,TP(52MM)
D0805	903-10130	DIODE, EU1ZV,TP(52MM)
D0806	903-10370	DIODE, EU1AV 600V 0.25A
D0807	903-10370	DIODE, EU1AV 600V 0.25A
D0808	903-10370	DIODE, EU1AV 600V 0.25A
D0809	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0810	903-10370	DIODE, EU1AV 600V 0.25A
D0811	903-10370	DIODE, EU1AV 600V 0.25A
D0812	903-10044	DIODE, TVR06J 0.6A/600V 250NS
D0814	903-10042	DIODE, FML-G12S
D0821	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0851	905-10435	IC,N SLA1003 SIP12 BK DIO
D0900	903-10044	DIODE, TVR06J 0.6A/600V 250NS
D0901	903-10044	DIODE, TVR06J 0.6A/600V 250NS
D0902	903-10044	DIODE, TVR06J 0.6A/600V 250NS
D0903	903-10044	DIODE, TVR06J 0.6A/600V 250NS
D0904	903-10044	DIODE, TVR06J 0.6A/600V 250NS
D0905	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0906	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0907	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D0908	903-10044	DIODE, TVR06J 0.6A/600V 250NS
D0909	903-10044	DIODE, TVR06J 0.6A/600V 250NS
D0910	903-10364	DIODE, 1N4005 GP TA
D2901	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D2902	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM



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COMPONENT PARTS LIST

IQB27FW

REF	PART#	DESCRIPTION
D2903	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D2905	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D2906	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D2907	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D2909	903-10371	DIODE, RGP 15G TA
D2910	903-10371	DIODE, RGP 15G TA
D2911	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D2912	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
D2913	903-01482	DIODE, 1S2471DETECT,SW(26MM)TP ROHM
DA801	905-10435	IC,N SLA1003 SIP12 BK DIODE, MODULE
DL01	820-10269	COIL, L/C FILTER(05W) LPF
DL02	820-10269	COIL, L/C FILTER(05W) LPF
DL1	820-10269	COIL, L/C FILTER(05W) LPF
DL2	820-10269	COIL, L/C FILTER(05W) LPF
F602	936-10030	FUSE, NON TIME DELAY 4000MA 125 V 2.5X7.6
F603	936-10030	FUSE, NON TIME DELAY 4000MA 125 V 2.5X7.6
F801	936-10029	FUSE, TIME LAG 5000MA 250 V 5.2X20 CY/GL KS
F802	936-10030	FUSE, NON TIME DELAY 4000MA 125 V 2.5X7.6
F803	936-10030	FUSE, NON TIME DELAY 4000MA 125 V 2.5X7.6
F804	936-10030	FUSE, NON TIME DELAY 4000MA 125 V 2.5X7.6
F805	936-10030	FUSE, NON TIME DELAY 4000MA 125 V 2.5X7.6
FB801	949-10001	CORE FERRITE 1UH TAPING
FB802	949-10001	CORE FERRITE 1UH TAPING
FB803	949-10001	CORE FERRITE 1UH TAPING
FB804	949-10001	CORE FERRITE 1UH TAPING
FB805	949-10001	CORE FERRITE 1UH TAPING
FB806	949-10001	CORE FERRITE 1UH TAPING
FB807	949-10001	CORE FERRITE 1UH TAPING
FB902	949-10001	CORE FERRITE 1UH TAPING
FR2948	863-10075	RESISTOR, FUSIBLE 100 1/2W 5%
FR436	863-11231	RESISTOR, FUSIBLE 1 1W 5%
FR440	863-11231	RESISTOR, FUSIBLE 1 1W 5%
FR441	863-11231	RESISTOR, FUSIBLE 1 1W 5%
FR444	863-10307	RESISTOR, FUSIBLE 4.7 1/2W 5%
FR445	863-11271	RESISTOR, FUSIBLE 5.60 1W 5%
HIC002	905-10445	IC, SYNC DETECTOR 8 PIN
HIC401	905-10444	IC, SIDE PINCUSHION 12 P
HIC804	905-10443	IC, ER115 12PIN BK 115V
IC001	905-10442	IC, M37280MFSP ,64P BK M
IC002	905-10422	IC, AT24C08-10PC 8D EEPROM(8K,IIC,)
IC003	905-10210	IC, KA7542Z RESET T092 T
IC004	905-10425	IC, KIA7805P(KIA78005AP)
IC01	905-10428	IC, KIA7809PI 3P(TO-220IS)1A,9V
IC02	905-10437	IC, CXA2019 40P,QFP BK NTSC/PAL CH
IC04	905-10436	IC, SDA9388X 28P,SOP TP NT/PAL-M/N
IC05	905-10430	IC, MC14053BCP 16D ANALOG S/W
IC1	905-10428	IC, KIA7809PI 3P(TO-220IS)1A,9V
IC1201	905-10432	IC, TDA7052A 8P,DIP BK 1
IC2	905-10437	IC, CXA2019 40P,QFP BK N
IC201	905-10439	IC, CXA2069Q QFP64 BK I2
IC202	905-10428	IC, KIA7809PI 3P(TO-220IS)1A,9V
IC300	905-10434	IC, LA7845 7SIP
IC302	905-10434	IC, LA7845 7SIP V/OUT(1.5A)
IC4	905-10436	IC, SDA9388X 28P,SOP TP
IC5	905-10430	IC, MC14053 B
IC501	905-10440	IC, CXA2135S 48P,SDIP BK

REF	PART#	DESCRIPTION
IC601	905-10424	IC, MSP3430G 52P,SDIP BK
IC602	905-10210	IC, KA7542Z RESET T092 T
IC603	905-10426	IC, KIA7805PI 3P(TO-220IS) 5V,1A
IC604	905-10427	IC, KIA7808PI 3P(TO-220IS) 1A,8V
IC605	905-10427	IC, KIA7808PI 3P(TO-220IS) 1A,8V
IC609	905-10426	IC, KIA7805PI 3P(TO-220IS) 5V,1A
IC660	905-10433	IC, LA4282 12S 2CHX10W AUDIO AMP
IC801	905-10178	IC, N STR/S6709 9S SMPS-CNTR
IC802	905-10159	IC, PC817XF3 4D PHOTO COUPLER
IC901	905-10431	IC, TDA6101Q 9S VIDEO OUT AMP ,DBS
IC902	905-10431	IC, TDA6101Q 9S VIDEO OUT AMP ,DBS
IC903	905-10431	IC, TDA6101Q 9S VIDEO OUT AMP ,DBS
ICD02	905-10438	IC, CXD2064Q 48P,QFP BK 4H MULTI D
J001	863-07330	RESISTOR, CHIP 0 1/10W P-TYPE TAPPING
J012	863-07330	RESISTOR, CHIP 0 1/10W P-TYPE TAPPING
J015	863-07330	RESISTOR, CHIP 0 1/10W P-TYPE TAPPING
J016	863-07330	RESISTOR, CHIP 0 1/10W P-TYPE TAPPING
J017	863-07330	RESISTOR, CHIP 0 1/10W P-TYPE TAPPING
J018	863-07330	RESISTOR, CHIP 0 1/10W P-TYPE TAPPING
J023	863-07330	RESISTOR, CHIP 0 1/10W P-TYPE TAPPING
J024	863-07330	RESISTOR, CHIP 0 1/10W P-TYPE TAPPING
J026	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
J027	863-07330	RESISTOR, CHIP 0 1/10W P-TYPE TAPPING
J028	863-07330	RESISTOR, CHIP 0 1/10W P-TYPE TAPPING
J031	863-07330	RESISTOR, CHIP 0 1/10W P-TYPE TAPPING
J04	863-07330	RESISTOR, CHIP 0 1/10W P-TYPE TAPPING
J065	863-10088	RESISTOR, FIXED CARBON FILM 5.6K 1/6W 5
J066	863-10088	RESISTOR, FIXED CARBON FILM 5.6K 1/6W 5
J08	863-07330	RESISTOR, CHIP 0 1/10W P-TYPE TAPPING
J1	863-07330	RESISTOR, CHIP 0 1/10W 5
J12	863-07330	RESISTOR, CHIP 0 1/10W 5
J1204	820-10106	INDUCTOR, AXIAL LEAD 33UH K 2.3*3.4 TP
J15	863-07330	RESISTOR, CHIP 0 1/10W 5
J16	863-07330	RESISTOR, CHIP 0 1/10W 5
J17	863-07330	RESISTOR, CHIP 0 1/10W 5
J18	863-07330	RESISTOR, CHIP 0 1/10W 5
J206	863-07330	RESISTOR, CHIP 0 1/10W 5
J207	863-07330	RESISTOR, CHIP 0 1/10W 5
J208	863-07330	RESISTOR, CHIP 0 1/10W 5
J213	863-07330	RESISTOR, CHIP 0 1/10W 5
J218	863-07330	RESISTOR, CHIP 0 1/10W 5
J222	863-07330	RESISTOR, CHIP 0 1/10W 5
J226	863-07330	RESISTOR, CHIP 0 1/10W 5
J227	863-07330	RESISTOR, CHIP 0 1/10W 5
J23	863-07330	RESISTOR, CHIP 0 1/10W 5
J24	863-07330	RESISTOR, CHIP 0 1/10W 5
J246	863-11215	RESISTOR, FIXED CARBON FILM 75 1/6W 5
J251	863-07330	RESISTOR, CHIP 0 1/10W 5
J253	863-07330	RESISTOR, CHIP 0 1/10W 5
J254	863-07330	RESISTOR, CHIP 0 1/10W 5
J256	863-07330	RESISTOR, CHIP 0 1/10W 5
J257	863-07330	RESISTOR, CHIP 0 1/10W 5
J258	863-07330	RESISTOR, CHIP 0 1/10W 5
J260	863-07330	RESISTOR, CHIP 0 1/10W 5
J261	863-07330	RESISTOR, CHIP 0 1/10W 5
J262	863-07330	RESISTOR, CHIP 0 1/10W 5



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COMPONENT PARTS LIST

IQB27FW

REF	PART#	DESCRIPTION
J263	863-07330	RESISTOR, CHIP 0 1/10W 5
J265	863-07330	RESISTOR, CHIP 0 1/10W 5
J27	863-07330	RESISTOR, CHIP 0 1/10W 5
J28	863-07330	RESISTOR, CHIP 0 1/10W 5
J31	863-07330	RESISTOR, CHIP 0 1/10W 5
J4	863-07330	RESISTOR, CHIP 0 1/10W 5
J516	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
J523	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
J602	863-07330	RESISTOR, CHIP 0 1/10W 5
J603	863-07330	RESISTOR, CHIP 0 1/10W 5
J605	863-07330	RESISTOR, CHIP 0 1/10W 5
J618	863-07330	RESISTOR, CHIP 0 1/10W 5
J622	863-07330	RESISTOR, CHIP 0 1/10W 5
J623	863-07330	RESISTOR, CHIP 0 1/10W 5
J625	863-07330	RESISTOR, CHIP 0 1/10W 5
J627	863-07330	RESISTOR, CHIP 0 1/10W 5
J630	863-07330	RESISTOR, CHIP 0 1/10W 5
J8	863-07330	RESISTOR, CHIP 0 1/10W 5
J824	863-11222	RESISTOR, FIXED CARBON FILM 22K 1/6W 5
JA1	844-10059	JACK ASSY PJ6054A EARPHONE+S-V
JA201	844-10055	JACK, RCA ASSY A/V JACK(3PX3PX3P) V
JA203	844-10056	JACK, DIN S-VHS(PJ 6046B-01)H=
JACK1	844-10057	JACK, DIN PJ6046E PARK ELEC S-
JK01	844-10058	JACK, RCA S-438A PARK ELEC YUV IN-3 A/V IN(ST
JK1	844-10058	JACK, RCA S-438A PARK ELEC YUV
L001	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L001	820-10266	INDUCTOR, AXIAL LEAD 6.8UH K 2.3*3.4 TP
L003	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L004	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L005	820-10106	INDUCTOR, AXIAL LEAD 33UH K 2.3*3.4 TP
L007	820-10133	INDUCTOR, AXIAL LEAD 4.7UH K 2.3*3.4 TP
L008	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L009	820-10106	INDUCTOR, AXIAL LEAD 33UH K 2.3*3.4 TP
L010	820-10252	INDUCTOR, AXIAL LEAD 47UH K 2.3*3.4 TP
L011	820-10103	INDUCTOR, AXIAL LEAD 22UH K 2.3*3.4 TP
L012	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L013	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L014	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L015	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L1	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L10	820-10252	INDUCTOR, AXIAL LEAD 47UH K 2.3*3.4 TP
L103	820-10264	INDUCTOR, AXIAL LEAD 33UH 10% 4X10.5
L104	820-10264	INDUCTOR, AXIAL LEAD 33UH 10% 4X10.5
L105	820-10264	INDUCTOR, AXIAL LEAD 33UH 10% 4X10.5
L11	820-10103	INDUCTOR, AXIAL LEAD 22UH K 2.3*3.4 TP
L12	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L13	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L14	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L15	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L201	820-10106	INDUCTOR, AXIAL LEAD 33UH K 2.3*3.4 TP
L203	820-10263	INDUCTOR, AXIAL LEAD 2.2UH K 2.3*3.4 TP
L204	820-10263	INDUCTOR, AXIAL LEAD 2.2UH K 2.3*3.4 TP
L205	820-10264	INDUCTOR, AXIAL LEAD 33UH 10% 4X10.5
L206	820-10264	INDUCTOR, AXIAL LEAD 33UH 10% 4X10.5
L207	820-10106	INDUCTOR, AXIAL LEAD 33UH K 2.3*3.4 TP
L208	820-10264	INDUCTOR, AXIAL LEAD 33UH 10% 4X10.5

REF	PART#	DESCRIPTION
L3	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L4	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L401	820-10274	COIL, H-LINEARITY 40UH USTC0.12PHY 33T
L402	820-10267	COIL, INDUCTOR SP0508-392K
L403	820-10273	COIL, CHOKE WIDTH 3600UH
L404	820-10270	COIL, CHOKE CHOKE 260UH R 1824
L405	820-10268	COIL, CHOKE 560UH (E/W)
L501	820-10262	INDUCTOR, AXIAL LEAD 10UH K 4*10.5 TP
L502	820-10262	INDUCTOR, AXIAL LEAD 10UH K 4*10.5 TP
L601	820-10264	INDUCTOR, AXIAL LEAD 33UH 10% 4X10.5
L603	820-10264	INDUCTOR, AXIAL LEAD 33UH 10% 4X10.5
L604	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L8	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
L801	820-10098	COIL, CHOKE 82UH R1217
L802	820-10098	COIL, CHOKE 82UH R1217
L803	820-10098	COIL, CHOKE 82UH R1217
L804	820-10098	COIL, CHOKE 82UH R1217
L9	820-10106	INDUCTOR, AXIAL LEAD 33UH K 2.3*3.4 TP
L901	820-10262	INDUCTOR, AXIAL LEAD 10UH K 4*10.5 TP
LD01	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
LD02	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
LD03	820-10103	INDUCTOR, AXIAL LEAD 22UH K 2.3*3.4 TP
LD04	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
LD06	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
LD07	820-10103	INDUCTOR, AXIAL LEAD 22UH K 2.3*3.4 TP
LD08	820-10103	INDUCTOR, AXIAL LEAD 22UH K 2.3*3.4 TP
LD09	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
LD1	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
LD10	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
LD12	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
LD2	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
LD3	820-10103	INDUCTOR, AXIAL LEAD 22UH K 2.3*3.4 TP
LD4	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
LD6	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
LD7	820-10103	INDUCTOR, AXIAL LEAD 22UH K 2.3*3.4 TP
LD8	820-10103	INDUCTOR, AXIAL LEAD 22UH K 2.3*3.4 TP
LD9	820-10101	INDUCTOR, AXIAL LEAD 10UH K 2.3*3.4 TP
P005B	823-10099	CONNECTOR ASSY ASSY,6P (L=150)
P007B	823-10098	CONNECTOR ASSY ASSY,4P (L=200)
P199A	823-10097	CONNECTOR ASSY 1P MXH8610 800MM
P200	812-10089	SUPPORTER PIP BOARD(NC-52A)
P201A	NSP	PIN WAFER IL-G 12(2.5S)
P201B	823-10096	CONNECTOR ASSY 12P,CONNECTOR-CONNECTOR 600MM
P301B	823-10102	CONNECTOR ASSY 2.5MM 12P(L=150)GT25
P4	NSP	PIN WAFER IL-G(AN) 4P 2.
P801	811-10023	POWER CORD . KUK JE UL/CSA 3000
P804B	823-10102	CONNECTOR ASSY 2.5MM 12P(L=150)GT25
P901B	823-10103	CONNECTOR ASSY 11P 450MM GIL-G TO G
P902B	823-10100	CONNECTOR ASSY ASSY,10P (L=400)
Q001	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q002	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q003	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q004	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q005	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
Q006	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q007	921-10179	TRANSISTOR KSC945C-Y



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COMPONENT PARTS LIST

IQB27FW

REF	PART#	DESCRIPTION
Q008	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q009	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q010	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q011	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q012	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q013	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q014	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q015	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q017	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
Q018	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
Q019	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
Q020	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
Q021	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
Q022	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
Q023	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
Q024	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
Q025	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
Q026	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q027	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
Q028	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q1	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q10	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q101	921-10181	TRANSISTOR KSR1202 TP
Q102	921-10181	TRANSISTOR KSR1202 TP
Q105	921-10179	TRANSISTOR KSC945C-Y
Q106	921-10179	TRANSISTOR KSC945C-Y
Q107	921-10179	TRANSISTOR KSC945C-Y
Q108	921-10179	TRANSISTOR KSC945C-Y
Q11	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q12	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q13	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q14	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q15	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q17	921-10183	TRANSISTOR 2SA1504S
Q18	921-10183	TRANSISTOR 2SA1504S
Q19	921-10183	TRANSISTOR 2SA1504S
Q2	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q20	921-10183	TRANSISTOR 2SA1504S
Q201	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q202	921-10178	TRANSISTOR KSA733C-Y,SST
Q203	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q203	921-10179	TRANSISTOR KSC945C-Y
Q204	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q205	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q206	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q207	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q208	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q209	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q21	921-10183	TRANSISTOR 2SA1504S
Q210	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q211	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q212	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q22	921-10183	TRANSISTOR 2SA1504S
Q23	921-10183	TRANSISTOR 2SA1504S
Q24	921-10183	TRANSISTOR 2SA1504S
Q25	921-10183	TRANSISTOR 2SA1504S

REF	PART#	DESCRIPTION
Q26	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q27	921-10183	TRANSISTOR 2SA1504S
Q28	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q2902	921-10187	TRANSISTOR KTC3202-TP-Y (KTC1959)
Q2903	921-10187	TRANSISTOR KTC3202-TP-Y (KTC1959)
Q2907	921-10182	TRANSISTOR KTA1274-Y TO-92L TP
Q2908	921-10188	TRANSISTOR KTC3227-Y,TP(KTC1627A),
Q2909	921-10069	TRANSISTOR KTA968A-Y
Q2910	921-10186	TRANSISTOR KTC2238A-Y
Q3	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q301	921-10179	TRANSISTOR KSC945C-Y
Q302	921-10179	TRANSISTOR KSC945C-Y
Q331	921-10185	TRANSISTOR KTD2059,
Q4	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q401	921-10184	TRANSISTOR 2SD1887
Q402	921-10184	TRANSISTOR 2SD1887 TO-3PML
Q404	921-10178	TRANSISTOR KSA733C-Y,SST
Q405	921-10185	TRANSISTOR KTD2059-Y TO-220IS
Q413	921-10178	TRANSISTOR KSA733C-Y,SST
Q5	921-10183	TRANSISTOR 2SA1504S
Q501	921-10181	TRANSISTOR KSR1202 TP
Q502	921-10181	TRANSISTOR KSR1202 TP
Q503	921-10181	TRANSISTOR KSR1202 TP
Q504	921-10179	TRANSISTOR KSC945C-Y
Q506	921-10181	TRANSISTOR KSR1202 TP
Q507	921-10178	TRANSISTOR KSA733C-Y,SST
Q508	921-10178	TRANSISTOR KSA733C-Y,SST
Q509	921-10178	TRANSISTOR KSA733C-Y,SST
Q510	921-10179	TRANSISTOR KSC945C-Y
Q511	921-10181	TRANSISTOR KSR1202 TP
Q512	921-10179	TRANSISTOR KSC945C-Y
Q516	921-10179	TRANSISTOR KSC945C-Y
Q554	921-10179	TRANSISTOR KSC945C-Y
Q6	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q602	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q603	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q604	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q605	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q609	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q660	921-10178	TRANSISTOR KSA733C-Y,SST
Q8	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q800	921-10065	TRANSISTOR 2SC3852A
Q802	921-10188	TRANSISTOR KTC3227-Y,TP(KTC1627A),
Q806	921-10069	TRANSISTOR KTA968A-Y
Q9	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
Q900	921-10023	TRANSISTOR KTA1266-TP-Y (KTA1015)
QD01	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
QD03	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
QD04	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
QD05	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
QD06	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
QD07	921-10183	TRANSISTOR CHIP 2SA1504S (ASY)
QD1	921-10183	TRANSISTOR 2SA1504S
QD3	921-10183	TRANSISTOR 2SA1504S
QD4	921-10183	TRANSISTOR 2SA1504S
QD5	921-10183	TRANSISTOR 2SA1504S



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COMPONENT PARTS LIST

IQB27FW

REF	PART#	DESCRIPTION
QD6	921-10189	TRANSISTOR CHIP 2SC3875S (ALY)
QD7	921-10183	TRANSISTOR 2SA1504S
R001	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R002	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R003	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R004	863-10081	RESISTOR, FIXED CARBON FILM 1.6K 1/6W 5
R005	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R006	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R007	863-10089	RESISTOR, FIXED CARBON FILM 10K 1/6W 5
R008	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R009	863-10081	RESISTOR, FIXED CARBON FILM 1.6K 1/6W 5
R010	863-10055	RESISTOR, FIXED CARBON FILM 560 1/6W 5
R011	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R012	863-10092	RESISTOR, FIXED CARBON FILM 12K 1/6W 5
R013	863-10089	RESISTOR, FIXED CARBON FILM 10K 1/6W 5
R014	863-10058	RESISTOR, FIXED CARBON FILM 330 1/6W 5
R015	863-07335	RESISTOR, CHIP 150 1/10W 5
R016	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
R017	863-10102	RESISTOR, FIXED CARBON FILM 27K 1/6W 5
R018	863-11146	RESISTOR, FIXED CARBON FILM 100K 1/6W 5
R019	863-10057	RESISTOR, FIXED CARBON FILM 3.9K 1/6W 5
R022	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
R023	863-11255	RESISTOR, FIXED CARBON FILM 150K 1/6W 5
R024	863-10091	RESISTOR, FIXED CARBON FILM 47K 1/6W 5
R025	863-07285	RESISTOR, CHIP 100 1/10W 5
R026	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R027	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R028	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R029	863-11262	RESISTOR, FIXED CARBON FILM 360 1/2W 5
R030	863-10091	RESISTOR, FIXED CARBON FILM 47K 1/6W 5
R031	863-10091	RESISTOR, FIXED CARBON FILM 47K 1/6W 5
R032	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R033	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R034	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R035	863-10080	RESISTOR, FIXED CARBON FILM 15K 1/6W 5
R036	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R037	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
R038	863-07285	RESISTOR, CHIP 100 1/10W 5
R039	863-10092	RESISTOR, FIXED CARBON FILM 12K 1/6W 5
R040	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
R041	863-10124	RESISTOR, FIXED CARBON FILM 2.2K 1/6W 5
R042	863-10089	RESISTOR, FIXED CARBON FILM 10K 1/6W 5
R043	863-10086	RESISTOR, FIXED CARBON FILM 470 1/6W 5
R044	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R045	863-11249	RESISTOR, FIXED CARBON FILM 1.0M 1/6W 5
R046	863-10100	RESISTOR, FIXED CARBON FILM 3.3K 1/6W 5
R047	863-10091	RESISTOR, FIXED CARBON FILM 47K 1/6W 5
R048	863-10100	RESISTOR, FIXED CARBON FILM 3.3K 1/6W 5
R049	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R050	863-10091	RESISTOR, FIXED CARBON FILM 47K 1/6W 5
R051	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R052	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R053	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R054	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R055	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R056	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5

REF	PART#	DESCRIPTION
R057	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R058	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R059	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R060	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R061	863-07293	RESISTOR, CHIP 220 1/10W 5
R062	863-07293	RESISTOR, CHIP 220 1/10W 5
R063	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R064	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R065	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R066	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R067	863-10047	RESISTOR, FIXED CARBON FILM 2.7K 1/6W 5
R068	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R070	863-07321	RESISTOR, CHIP 75 1/10W 5
R071	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R072	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
R073	863-10279	RESISTOR, FIXED CARBON FILM 10 1/6W 5
R074	863-10279	RESISTOR, FIXED CARBON FILM 10 1/6W 5
R075	863-10279	RESISTOR, FIXED CARBON FILM 10 1/6W 5
R076	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
R077	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
R078	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R079	863-11267	RESISTOR, FUSIBLE 10 1/2W 5
R080	863-10091	RESISTOR, FIXED CARBON FILM 47K 1/6W 5
R081	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R082	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R083	863-07301	RESISTOR, CHIP 10 1/10W 5
R084	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R085	863-07301	RESISTOR, CHIP 10 1/10W 5
R086	863-10279	RESISTOR, FIXED CARBON FILM 10 1/6W 5
R087	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R088	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R089	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R090	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R091	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R092	863-10047	RESISTOR, FIXED CARBON FILM 2.7K 1/6W 5
R093	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R094	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R095	863-10089	RESISTOR, FIXED CARBON FILM 10K 1/6W 5
R096	863-10091	RESISTOR, FIXED CARBON FILM 47K 1/6W 5
R097	863-10086	RESISTOR, FIXED CARBON FILM 470 1/6W 5
R098	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R099	863-07259	RESISTOR, CHIP 47K 1/10W 5
R1	863-07321	RESISTOR, CHIP 75 1/10W 5
R10	863-07283	RESISTOR, CHIP 10K 1/10W 5
R100	863-07259	RESISTOR, CHIP 47K 1/10W 5
R101	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R102	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R103	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R104	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R105	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R106	863-07291	RESISTOR, CHIP 470 1/10W 5
R107	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R108	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R11	863-07335	RESISTOR, CHIP 150 1/10W 5
R110	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
R111	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5



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COMPONENT PARTS LIST

IQB27FW

REF	PART#	DESCRIPTION
R112	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R113	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R114	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R115	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
R116	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R117	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R118	863-11298	RESISTOR, FIX METAL FILM OXIDE 560 1/2W 5
R119	863-11298	RESISTOR, FIX METAL FILM OXIDE 560 1/2W 5
R12	863-07294	RESISTOR, CHIP 27K 1/10W 5
R120	863-11298	RESISTOR, FIX METAL FILM OXIDE 560 1/2W 5
R1204	863-11227	RESISTOR, FIXED CARBON FILM 470K 1/6W 5
R1205	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R1208	863-11227	RESISTOR, FIXED CARBON FILM 470K 1/6W 5
R1209	863-11244	RESISTOR, FIXED CARBON FILM 10 1/2W 5
R121	863-11298	RESISTOR, FIX METAL FILM OXIDE 560 1/2W 5
R1212	863-11215	RESISTOR, FIXED CARBON FILM 75 1/6W 5
R122	863-10291	RESISTOR, FIX METAL FILM OXIDE 1.0K 1/2W 5
R123	863-10291	RESISTOR, FIX METAL FILM OXIDE 1.0K 1/2W 5
R127	863-11288	RESISTOR, FIX METAL FILM OXIDE 39 1/2W 5
R128	863-11285	RESISTOR, FIX METAL FILM OXIDE 18 1W 5%
R129	863-11285	RESISTOR, FIX METAL FILM OXIDE 18 1W 5%
R1292	863-11215	RESISTOR, FIXED CARBON FILM 75 1/6W 5
R1295	863-11244	RESISTOR, FIXED CARBON FILM 10 1/2W 5
R13	863-11272	RESISTOR, CHIP 160 1/10W 5 TA
R14	863-07283	RESISTOR, CHIP 10K 1/10W 5
R15	863-07335	RESISTOR, CHIP 150 1/10W 5
R16	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R17	863-07279	RESISTOR, CHIP 1.5K 1/10W 5
R18	863-11276	RESISTOR, CHIP 30K 1/10W 5
R19	863-07311	RESISTOR, CHIP 15K 1/10W 5
R2	863-07321	RESISTOR, CHIP 75 1/10W 5
R202	863-07293	RESISTOR, CHIP 220 1/10W 5
R203	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R205	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R206	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R207	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R208	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R209	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R210	863-10089	RESISTOR, FIXED CARBON FILM 10K 1/6W 5
R211	863-11146	RESISTOR, FIXED CARBON FILM 100K 1/6W 5
R212	863-11146	RESISTOR, FIXED CARBON FILM 100K 1/6W 5
R213	863-10124	RESISTOR, FIXED CARBON FILM 2.2K 1/6W 5
R214	863-10089	RESISTOR, FIXED CARBON FILM 10K 1/6W 5
R215	863-10124	RESISTOR, FIXED CARBON FILM 2.2K 1/6W 5
R216	863-07303	RESISTOR, CHIP 470K 1/10W 5
R217	863-10091	RESISTOR, FIXED CARBON FILM 47K 1/6W 5
R22	863-07283	RESISTOR, CHIP 10K 1/10W 5
R228	863-07293	RESISTOR, CHIP 220 1/10W 5
R23	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R233	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R235	863-07321	RESISTOR, CHIP 75 1/10W 5
R236	863-07321	RESISTOR, CHIP 75 1/10W 5
R237	863-07321	RESISTOR, CHIP 75 1/10W 5
R238	863-07303	RESISTOR, CHIP 470K 1/10W 5
R239	863-07303	RESISTOR, CHIP 470K 1/10W 5
R24	863-07283	RESISTOR, CHIP 10K 1/10W 5

REF	PART#	DESCRIPTION
R240	863-07293	RESISTOR, CHIP 220 1/10W 5
R241	863-07305	RESISTOR, CHIP 5.6K 1/10W 5
R242	863-07305	RESISTOR, CHIP 5.6K 1/10W 5
R243	863-07321	RESISTOR, CHIP 75 1/10W 5
R244	863-07303	RESISTOR, CHIP 470K 1/10W 5
R245	863-07303	RESISTOR, CHIP 470K 1/10W 5
R246	863-07259	RESISTOR, CHIP 47K 1/10W 5
R247	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R248	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R249	863-07327	RESISTOR, CHIP 68 1/10W 5
R25	863-07285	RESISTOR, CHIP 100 1/10W 5
R250	863-07303	RESISTOR, CHIP 470K 1/10W 5
R251	863-07278	RESISTOR, CHIP 4.7K 1/10W 5
R252	863-07303	RESISTOR, CHIP 470K 1/10W 5
R253	863-07278	RESISTOR, CHIP 4.7K 1/10W 5
R254	863-07303	RESISTOR, CHIP 470K 1/10W 5
R255	863-07278	RESISTOR, CHIP 4.7K 1/10W 5
R257	863-07321	RESISTOR, CHIP 75 1/10W 5
R258	863-07278	RESISTOR, CHIP 4.7K 1/10W 5
R259	863-07286	RESISTOR, CHIP 330 1/10W 5
R26	863-07285	RESISTOR, CHIP 100 1/10W 5
R261	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R262	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R263	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R264	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R265	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R27	863-07285	RESISTOR, CHIP 100 1/10W 5
R270	863-07278	RESISTOR, CHIP 4.7K 1/10W 5
R271	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R272	863-07278	RESISTOR, CHIP 4.7K 1/10W 5
R274	863-07312	RESISTOR, CHIP 820 1/10W 5
R275	863-07312	RESISTOR, CHIP 820 1/10W 5
R276	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R277	863-10088	RESISTOR, FIXED CARBON FILM 5.6K 1/6W 5
R278	863-10088	RESISTOR, FIXED CARBON FILM 5.6K 1/6W 5
R279	863-10088	RESISTOR, FIXED CARBON FILM 5.6K 1/6W 5
R28	863-07322	RESISTOR, CHIP 3.3K 1/10W 5
R280	863-07293	RESISTOR, CHIP 220 1/10W 5
R283	863-11277	RESISTOR, CHIP 510 1/10W 5
R284	863-11277	RESISTOR, CHIP 510 1/10W 5
R285	863-07303	RESISTOR, CHIP 470K 1/10W 5
R286	863-07303	RESISTOR, CHIP 470K 1/10W 5
R287	863-07344	RESISTOR, CHIP 120 1/10W 5
R29	863-07285	RESISTOR, CHIP 100 1/10W 5
R2901	863-10100	RESISTOR, FIXED CARBON FILM 3.3K 1/6W 5
R2906	863-10326	RESISTOR, FIXED CARBON FILM 680 1/6W 5
R2907	863-10083	RESISTOR, FIXED CARBON FILM 1.2K 1/6W 5
R2908	863-10057	RESISTOR, FIXED CARBON FILM 3.9K 1/6W 5
R2909	863-10328	RESISTOR, FIXED CARBON FILM 560 1/2W 5
R2921	863-10136	RESISTOR, FIXED CARBON FILM 470 1/2W 5
R2922	863-11225	RESISTOR, FIXED CARBON FILM 330 1/2W 5
R2928	863-11245	RESISTOR, FIXED CARBON FILM 22 1/6W 5
R2929	863-11245	RESISTOR, FIXED CARBON FILM 22 1/6W 5
R2930	863-10279	RESISTOR, FIXED CARBON FILM 10 1/6W 5
R2931	863-11245	RESISTOR, FIXED CARBON FILM 22 1/6W 5
R2932	863-11247	RESISTOR, FIXED CARBON FILM 82 1/6W 5



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COMPONENT PARTS LIST

IQB27FW

REF	PART#	DESCRIPTION
R2933	863-11247	RESISTOR, FIXED CARBON FILM 82 1/6W 5
R2934	863-11268	RESISTOR, FUSIBLE 10 1W 5%
R2935	863-11251	RESISTOR, FIXED CARBON FILM 12K 1/2W 5
R2936	863-11301	RESISTOR, FIX METAL FILM OXIDE 6.8K 1/2W 5
R2937	863-11266	RESISTOR, FIXED CARBON FILM 68K 1/2W 5
R2938	863-11266	RESISTOR, FIXED CARBON FILM 68K 1/2W 5
R2939	863-11301	RESISTOR, FIX METAL FILM OXIDE 6.8K 1/2W 5
R2940	863-11297	RESISTOR, FIX METAL FILM OXIDE 4.7K 1/2W 5
R2941	863-11297	RESISTOR, FIX METAL FILM OXIDE 4.7K 1/2W 5
R2942	863-10322	RESISTOR, FIX METAL FILM OXIDE 150 1/2W 5
R2943	863-11246	RESISTOR, FIXED CARBON FILM 2.7 1/2W 5
R2944	863-10322	RESISTOR, FIX METAL FILM OXIDE 150 1/2W 5
R2945	863-11246	RESISTOR, FIXED CARBON FILM 2.7 1/2W 5
R2946	863-11300	RESISTOR, FIX METAL FILM OXIDE 680 1W 5%
R2947	863-11300	RESISTOR, FIX METAL FILM OXIDE 680 1W 5%
R2955	863-11260	RESISTOR, FIXED CARBON FILM 2.2K 1/2W 5
R2956	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R2959	863-10047	RESISTOR, FIXED CARBON FILM 2.7K 1/6W 5
R2960	863-10058	RESISTOR, FIXED CARBON FILM 330 1/6W 5
R2990	863-10111	RESISTOR, FIXED CARBON FILM 5.1K 1/6W 5
R3	863-07321	RESISTOR, CHIP 75 1/10W 5
R30	863-07287	RESISTOR, CHIP 330K 1/10W 5
R301	863-11222	RESISTOR, FIXED CARBON FILM 22K 1/6W 5
R302	863-11282	RESISTOR, METAL FILM 240 1/6W 1%
R303	863-11224	RESISTOR, FIXED CARBON FILM 300 1/6W 5
R304	863-11254	RESISTOR, FIXED CARBON FILM 150 1/6W 5
R305	863-11210	RESISTOR, FIXED CARBON FILM 2.2 1/2W 5
R306	863-11279	RESISTOR, FIX METAL FILM 1 1W 5%
R307	863-11295	RESISTOR, FIX METAL FILM OXIDE 220 2W 5%
R31	863-07307	RESISTOR, CHIP 2.2K 1/10W 5
R310	863-10300	RESISTOR, FIX METAL FILM 470 1/6W 1
R311	863-10083	RESISTOR, FIXED CARBON FILM 1.2K 1/6W 5
R312	863-10089	RESISTOR, FIXED CARBON FILM 10K 1/6W 5
R313	863-10104	RESISTOR, FIXED CARBON FILM 56K 1/6W 5
R314	863-06734	RESISTOR, FIXED CARBON FILM 82K 1/6W 5
R315	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
R316	863-10082	RESISTOR, FIXED CARBON FILM 3.0K 1/6W 5
R317	863-11265	RESISTOR, FIXED CARBON FILM 510 1/6W 5
R318	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R32	863-07283	RESISTOR, CHIP 10K 1/10W 5
R320	863-10302	RESISTOR, FIX METAL FILM 10K 1/6W 1
R321	863-10302	RESISTOR, FIX METAL FILM 10K 1/6W 1
R33	863-07286	RESISTOR, CHIP 330 1/10W 5
R34	863-07328	RESISTOR, CHIP 8.2K 1/10W 5
R36	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R37	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R38	863-07285	RESISTOR, CHIP 100 1/10W 5
R4	863-07284	RESISTOR, CHIP 100K 1/10W 5
R40	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R402	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R403	863-11294	RESISTOR, FIX METAL F 1.20K 2W 5%
R404	863-10371	RESISTOR, FIXED CARBON FILM 47 1/2W 5
R406	863-11296	RESISTOR, FIX METAL FILM OXIDE 270 1W 5%
R407	863-10328	RESISTOR, FIXED CARBON FILM 560 1/2W 5
R408	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R409	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5

REF	PART#	DESCRIPTION
R41	863-07285	RESISTOR, CHIP 100 1/10W 5
R410	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R411	863-10088	RESISTOR, FIXED CARBON FILM 5.6K 1/6W 5
R42	863-07285	RESISTOR, CHIP 100 1/10W 5
R421	863-10293	RESISTOR, FIXED CARBON FILM 6.8K 1/2W 5
R422	863-11293	RESISTOR, FIX METAL FILM OXIDE 1.20K 1W 5%
R423	863-11299	RESISTOR, FIX METAL FILM OXIDE 560 1W 5%
R424	863-11291	RESISTOR, FIX METAL F 5.60 1W 5%
R426	863-11250	RESISTOR, FIXED CARBON FILM 1.2K 1/2W 5
R43	863-07279	RESISTOR, CHIP 1.5K 1/10W 5
R431	863-11302	R, METAL FILM OXIDE 68K 1W 5%
R432	863-10088	RESISTOR, FIXED CARBON FILM 5.6K 1/6W 5
R433	863-11289	RESISTOR, FIX METAL FILM OXIDE 0.47 1W 5%
R437	863-11286	RESISTOR, FIX METAL FILM OXIDE 2.2 1/2W 5
R439	863-10180	RESISTOR, FIXED CARBON FILM 8.2K 1/6W 5
R44	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R446	863-11264	RESISTOR, FIXED CARBON FILM 4.3K 1/2W 5
R447	863-10099	RESISTOR, FIXED CARBON FILM 33K 1/6W 5
R448	863-10093	RESISTOR, FIXED CARBON FILM 2.0K 1/6W 5
R45	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R460	863-10083	RESISTOR, FIXED CARBON FILM 1.2K 1/6W 5
R469	863-10291	RESISTOR, FIX METAL FILM OXIDE 1.0K 1/2W 5
R47	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R470	863-10291	RESISTOR, FIX METAL FILM OXIDE 1.0K 1/2W 5
R471	863-11184	RESISTOR, FIX METAL FILM OXIDE 0.47 2W 5%
R48	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R49	863-07330	RESISTOR, CHIP 0 1/10W 5
R50	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R502	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R503	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R504	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R505	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R506	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R507	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R508	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R509	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R51	863-11277	RESISTOR, CHIP 510 1/10W 5
R510	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R511	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R512	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R513	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R514	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R515	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R516	863-11283	RESISTOR, FIX METAL FILM 33K 1/6W 1%
R517	863-10057	RESISTOR, FIXED CARBON FILM 3.9K 1/6W 5
R518	863-10131	RESISTOR, FIX METAL FILM 22K 1/6W 1%
R519	863-10089	RESISTOR, FIXED CARBON FILM 10K 1/6W 5
R52	863-11277	RESISTOR, CHIP 510 1/10W 5
R520	863-11261	RESISTOR, FIXED CARBON FILM 3.3M 1/6W 5
R521	863-11261	RESISTOR, FIXED CARBON FILM 3.3M 1/6W 5
R522	863-11252	RESISTOR, FIXED CARBON FILM 1.2M 1/6W 5% TA
R523	863-10180	RESISTOR, FIXED CARBON FILM 8.2K 1/6W 5
R524	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R525	863-10302	RESISTOR, FIX METAL FILM 10K 1/6W 1
R526	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R527	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5



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COMPONENT PARTS LIST

IQB27FW

REF	PART#	DESCRIPTION
R528	863-10057	RESISTOR, FIXED CARBON FILM 3.9K 1/6W 5
R529	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R53	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R530	863-10281	RESISTOR, FIXED CARBON FILM 750 1/6W 5
R531	863-10284	RESISTOR, FIXED CARBON FILM 51K 1/6W 5
R532	863-10280	RESISTOR, FIXED CARBON FILM 200 1/6W 5
R533	863-11261	RESISTOR, FIXED CARBON FILM 3.3M 1/6W 5
R534	863-11256	RESISTOR, FIXED CARBON FILM 18K 1/6W 5
R535	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R536	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R537	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R538	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R539	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R540	863-10058	RESISTOR, FIXED CARBON FILM 330 1/6W 5
R541	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R542	863-10100	RESISTOR, FIXED CARBON FILM 3.3K 1/6W 5
R543	863-10058	RESISTOR, FIXED CARBON FILM 330 1/6W 5
R544	863-11215	RESISTOR, FIXED CARBON FILM 75 1/6W 5
R545	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R548	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R549	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R55	863-07330	RESISTOR, CHIP 0 1/10W 5
R550	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R551	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R552	863-10099	RESISTOR, FIXED CARBON FILM 33K 1/6W 5
R557	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
R558	863-10326	RESISTOR, FIXED CARBON FILM 680 1/6W 5
R559	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
R56	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R560	863-10326	RESISTOR, FIXED CARBON FILM 680 1/6W 5
R561	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
R562	863-10326	RESISTOR, FIXED CARBON FILM 680 1/6W 5
R563	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R564	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R57	863-07333	RESISTOR, CHIP 270 1/10W 5
R570	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R58	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R59	863-07284	RESISTOR, CHIP 100K 1/10W 5
R590	863-10091	RESISTOR, FIXED CARBON FILM 47K 1/6W 5
R6	863-07259	RESISTOR, CHIP 47K 1/10W 5
R601	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R602	863-10049	RESISTOR, FIXED CARBON FILM 220 1/6W 5
R606	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R607	863-07310	RESISTOR, CHIP 33K 1/10W 5
R608	863-07310	RESISTOR, CHIP 33K 1/10W 5
R609	863-07345	RESISTOR, CHIP 20K 1/10W 5
R61	863-07293	RESISTOR, CHIP 220 1/10W 5
R610	863-07345	RESISTOR, CHIP 20K 1/10W 5
R611	863-07278	RESISTOR, CHIP 4.7K 1/10W 5
R612	863-07278	RESISTOR, CHIP 4.7K 1/10W 5
R613	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R614	863-07316	RESISTOR, CHIP 390 1/10W 5
R615	863-07316	RESISTOR, CHIP 390 1/10W 5
R62	863-07293	RESISTOR, CHIP 220 1/10W 5
R621	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R622	863-07281	RESISTOR, CHIP 1.0K 1/10W 5

REF	PART#	DESCRIPTION
R624	863-07279	RESISTOR, CHIP 1.5K 1/10W 5
R625	863-11278	RESISTOR, CHIP 62K 1/10W 5 TA
R626	863-11274	RESISTOR, CHIP 24K 1/10W 5 TA
R627	863-07291	RESISTOR, CHIP 470 1/10W 5
R628	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R63	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R631	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R632	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R64	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R65	863-07306	RESISTOR, CHIP 22K 1/10W 5
R66	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R660	863-11270	RESISTOR, FUSIBLE 3.3 1/2W 5
R661	863-10055	RESISTOR, FIXED CARBON FILM 560 1/6W 5
R662	863-11270	RESISTOR, FUSIBLE 3.3 1/2W 5
R663	863-11217	RESISTOR, FIXED CARBON FILM 1.1K 1/6W 5
R664	863-10093	RESISTOR, FIXED CARBON FILM 2.0K 1/6W 5
R665	863-10093	RESISTOR, FIXED CARBON FILM 2.0K 1/6W 5
R666	863-10100	RESISTOR, FIXED CARBON FILM 3.3K 1/6W 5
R667	863-10100	RESISTOR, FIXED CARBON FILM 3.3K 1/6W 5
R668	863-11217	RESISTOR, FIXED CARBON FILM 1.1K 1/6W 5
R67	863-07306	RESISTOR, CHIP 22K 1/10W 5
R679	863-11257	RESISTOR, FIXED CARBON FILM 180K 1/6W 5
R68	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R680	863-10089	RESISTOR, FIXED CARBON FILM 10K 1/6W 5
R681	863-10055	RESISTOR, FIXED CARBON FILM 560 1/6W 5
R682	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R7	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R70	863-07321	RESISTOR, CHIP 75 1/10W 5
R73	863-10279	RESISTOR, FIXED CARBON FILM 10 1/6W 5
R74	863-10279	RESISTOR, FIXED CARBON FILM 10 1/6W 5
R75	863-10279	RESISTOR, FIXED CARBON FILM 10 1/6W 5
R76	863-07330	RESISTOR, CHIP 0 1/10W 5
R77	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R78	863-07286	RESISTOR, CHIP 330 1/10W 5
R79	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R8	863-07294	RESISTOR, CHIP 27K 1/10W 5
R80	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R801	863-10310	RESISTOR, ERC12UGK475V(UL)RC1/
R804	863-10345	RESISTOR, FIXED CARBON FILM 100 1/2W 5
R805	863-10319	RESISTOR, FIX METAL FILM OXIDE 20K 2W 5%
R806	863-10319	RESISTOR, FIX METAL FILM OXIDE 20K 2W 5%
R807	863-10312	R,RW ROUND G 2W 0.16 J
R809	863-10305	RESISTOR, FIX METAL FILM 0.68 1/2W 5
R81	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R810	863-11284	RESISTOR, FIX METAL FILM OXIDE 10 2W 5%
R811	863-11248	RESISTOR, FIXED CARBON FILM 10K 1/2W 5
R812	863-10123	RESISTOR, FIXED CARBON FILM 5.6K 1/2W 5
R813	863-10125	RESISTOR, FIXED CARBON FILM 2.4K 1/6W 5
R814	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R815	863-10305	RESISTOR, FIX METAL FILM 0.68 1/2W 5
R816	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R817	863-10080	RESISTOR, FIXED CARBON FILM 15K 1/6W 5
R818	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R82	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R825	863-10124	RESISTOR, FIXED CARBON FILM 2.2K 1/6W 5
R83	863-07301	RESISTOR, CHIP 10 1/10W 5



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COMPONENT PARTS LIST

IQB27FW

REF	PART#	DESCRIPTION
R830	863-10093	RESISTOR, FIXED CARBON FILM 2.0K 1/6W 5
R831	863-10123	RESISTOR, FIXED CARBON FILM 5.6K 1/2W 5
R84	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R840	863-10057	RESISTOR, FIXED CARBON FILM 3.9K 1/6W 5
R841	863-10320	RESISTOR, FIXED CARBON FILM 820 1/6W 5
R847	863-11253	RESISTOR, FIXED CARBON FILM 1.3K 1/2W 5
R848	863-11250	RESISTOR, FIXED CARBON FILM 1.2K 1/2W 5
R85	863-07301	RESISTOR, CHIP 10 1/10W 5
R850	863-10310	RESISTOR, ERC12UGK475V(UL)RC1
R86	863-10279	RESISTOR, FIXED CARBON FILM 10 1/6W 5
R861	863-11287	RESISTOR, FIX METAL F 2.20 2W 5%
R87	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R88	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R89	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R9	863-07293	RESISTOR, CHIP 220 1/10W 5
R90	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R900	863-10080	RESISTOR, FIXED CARBON FILM 15K 1/6W 5
R902	863-11283	RESISTOR, FIX METAL FILM 33K 1/6W 1%
R903	863-11303	RESISTOR, FIX METAL F 68K 2W 5%
R904	863-10080	RESISTOR, FIXED CARBON FILM 15K 1/6W 5
R905	863-11218	RESISTOR, FIXED CARBON FILM 1.3K 1/6W 5
R906	863-11281	RESISTOR, FIX METAL FILM 180K 1/6W 1%
R907	863-11303	RESISTOR, FIX METAL F 68K 2W 5%
R908	863-11243	RESISTOR, FIXED CARBON COMPOSIT 1.2K OHM 1/2W 10%
R909	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R91	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R910	863-11269	RESISTOR, FUSIBLE 2.40 2W 5%
R911	863-11265	RESISTOR, FIXED CARBON FILM 510 1/6W 5
R912	863-10301	R, METAL FILM 2K 1/6W 1%
R914	863-10047	RESISTOR, FIXED CARBON FILM 2.7K 1/6W 5
R915	863-11218	RESISTOR, FIXED CARBON FILM 1.3K 1/6W 5
R916	863-11306	RESISTOR, FIXED CARBON COMPOSIT ERC12GK225V(RC 1/2W 2.2M K TA)
R917	863-11258	RESISTOR, FIXED CARBON FILM 180K 1/2W 5
R918	863-11303	RESISTOR, FIX METAL F 68K 2W 5%
R919	863-10050	RESISTOR, FIXED CARBON FILM 100 1/6W 5
R921	863-11280	RESISTOR, FIX METAL FILM 1.5K 1/6W
R924	863-10091	RESISTOR, FIXED CARBON FILM 47K 1/6W 5
R925	863-10086	RESISTOR, FIXED CARBON FILM 470 1/6W 5
R926	863-11265	RESISTOR, FIXED CARBON FILM 510 1/6W 5
R929	863-10047	RESISTOR, FIXED CARBON FILM 2.7K 1/6W 5
R93	863-10053	RESISTOR, FIXED CARBON FILM 1.0K 1/6W 5
R930	863-11243	RESISTOR, FIXED CARBON COMPOSIT 1.2K OHM 1/2W 10%
R938	863-11243	RESISTOR, FIXED CARBON COMPOSIT 1.2K OHM 1/2W 10%
R94	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R946	863-11218	RESISTOR, FIXED CARBON FILM 1.3K 1/6W 5
R947	863-10047	RESISTOR, FIXED CARBON FILM 2.7K 1/6W 5
R95	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R96	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R97	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
R99	863-07259	RESISTOR, CHIP 47K 1/10W 5
RD01	863-07296	RESISTOR, CHIP 56K 1/10W 5
RD02	863-07278	RESISTOR, CHIP 4.7K 1/10W 5
RD03	863-07278	RESISTOR, CHIP 4.7K 1/10W 5
RD04	863-10084	RESISTOR, FIXED CARBON FILM 4.70K 1/6W 5%
RD05	863-07314	RESISTOR, CHIP 680 OHM 1 / 10 W 5%

REF	PART#	DESCRIPTION
RD06	863-07312	RESISTOR, CHIP 820 1/10W 5
RD07	863-10062	RESISTOR, CHIP 3.0K 1/10W 5
RD09	863-07312	RESISTOR, CHIP 820 1/10W 5
RD1	863-07296	RESISTOR, CHIP 56K 1/10W 5
RD11	863-11275	RESISTOR, CHIP 300 1/10W 5
RD13	863-07280	RESISTOR, CHIP 560 1/10W 5
RD14	863-10335	RESISTOR, CHIP 2.0K 1/10W 5
RD16	863-07280	RESISTOR, CHIP 560 1/10W 5
RD17	863-07307	RESISTOR, CHIP 2.2K 1/10W 5
RD18	863-07307	RESISTOR, CHIP 2.2K 1/10W 5
RD19	863-10124	RESISTOR, FIXED CARBON FILM 2.2K 1/6W 5
RD2	863-07278	RESISTOR, CHIP 4.7K 1/10W 5
RD20	863-07307	RESISTOR, CHIP 2.2K 1/10W 5
RD21	863-11275	RESISTOR, CHIP 300 1/10W 5
RD26	863-07322	RESISTOR, CHIP 3.3K 1/10W 5
RD27	863-07281	RESISTOR, CHIP 1.0K 1/10W 5
RD3	863-07278	RESISTOR, CHIP 4.7K 1/10W 5
RD30	863-07317	RESISTOR, CHIP 2.7K 1/10W 5
RD31	863-07315	RESISTOR, CHIP 6.8K 1/10W 5
RD4	863-10084	RESISTOR, FIXED CARBON FILM 4.7K 1/6W 5
RD5	863-07314	RESISTOR, CHIP 680 1/10W 5
RD55	863-11273	RESISTOR, CHIP 1.6K 1/10W 5
RD56	863-07285	RESISTOR, CHIP 100 1/10W 5
RD6	863-07312	RESISTOR, CHIP 820 1/10W 5
RD7	863-10062	RESISTOR, CHIP 3.0K 1/10W 5
RD9	863-07312	RESISTOR, CHIP 820 1/10W 5
RL801	995-10005	RELAY DG12D1-0(M)-2 12V44MA
SG901	938-10001	SPARK GAP,RADIAL DSP-301N-C04F 300V 5
SG902	938-10001	SPARK GAP,RADIAL DSP-301N-C04F 300V 5
SG903	938-10001	SPARK GAP,RADIAL DSP-301N-C04F 300V 5
SK900	878-10015	SOCKET (CIRC),CPT PCS701A PARK 9P 14/3
SW1	885-10079	SWITCH PUSH SWITCH (NOT LOCKING)
SW2	885-10036	SWITCH TACT 4LEAD(TA),EVQPB905K
SW3	885-10036	SWITCH TACT 4LEAD(TA),EVQPB905K
SW4	885-10036	SWITCH TACT 4LEAD(TA),EVQPB905K
SW5	885-10036	SWITCH TACT 4LEAD(TA),EVQPB905K
SW6	885-10036	SWITCH TACT 4LEAD(TA),EVQPB905K
SW7	885-10036	SWITCH TACT 4LEAD(TA),EVQPB905K
T401	895-10042	TRANSFORMER H-DRIVE,EI-19,BULK
T402	895-10087	FBT (FLY BACK TRANSF FTMP31-T6005U . (LI
T403	895-10085	TRANSFORMER DBF,EER-2834,BULK
T801	820-10272	COIL, LINE FILTER SQE2930 10MH
T802	820-10272	COIL, LINE FILTER SQE2930 10MH
T803	895-10084	TRANSFORMER,SMPS[COI EER4954 400UH STR-S6
TH801	863-11305	THERMISTOR J503P53D070M2905
TH802	863-11304	THERMISTOR KL15L2R5
TU101	975-10038	TUNER TAUG-H006P LG PRECIS
TU102	975-10039	TUNER TAUG-H007P LG PRECIS
VR301	863-11307	R,SEMI-FIX(H) EVN-DJAA03 B201
VR401	863-11308	R,SEMI-FIX(H) EVN-DJAA03 B202
X001	903-10148	CRYSTAL,STANDARD HC49U SUNNY RADIAL 3.579545MHZ 30PP
X004	820-10122	RESONATOR RESO CSB503F30 503.5
X005	903-10381	CRYSTAL,STANDARD HC49U KJE RADIAL 27.000MHZ 30PPM 20
X1	903-10148	CRYSTAL 3.579545 16PF 90 OHM BULK



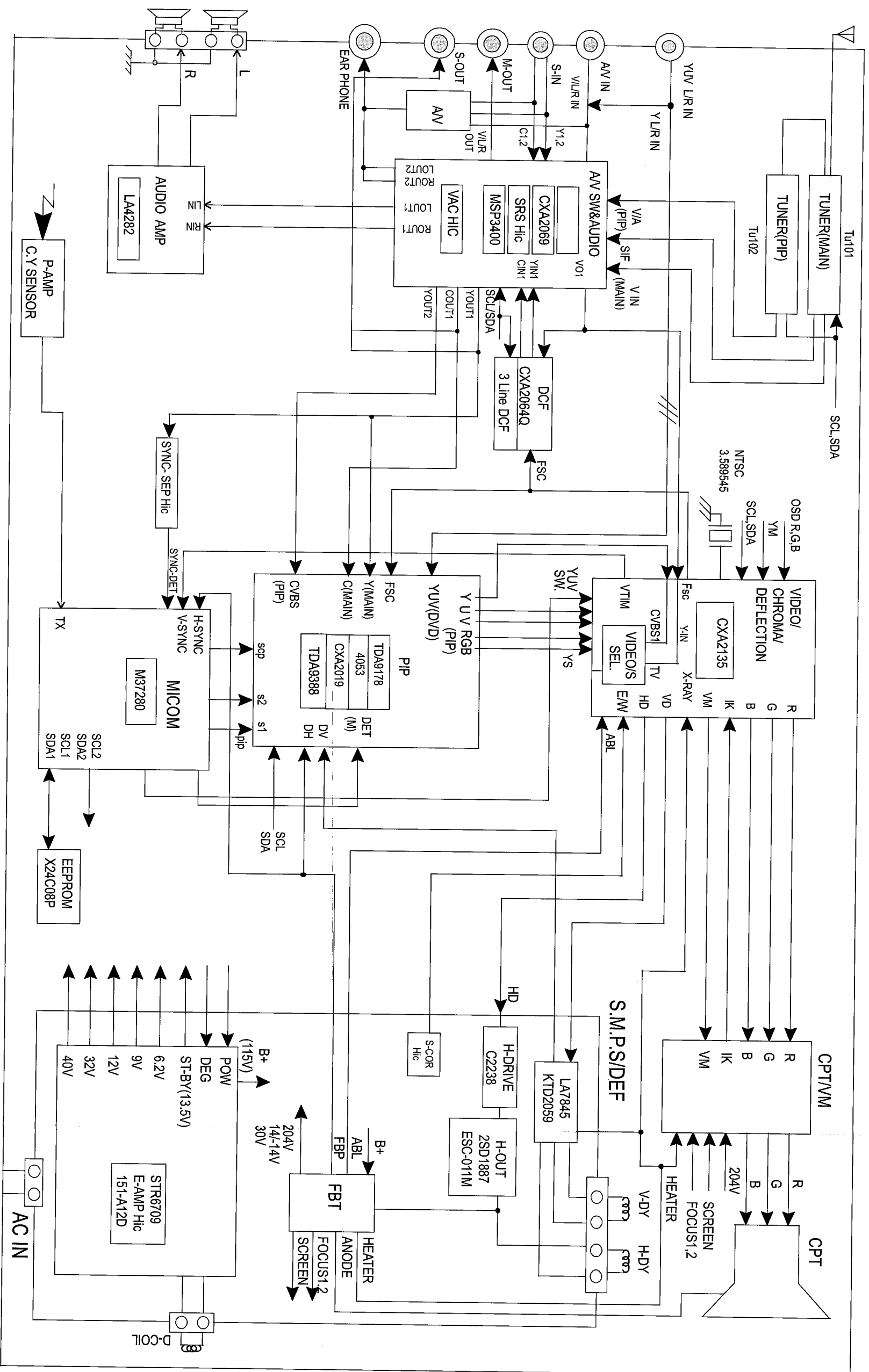
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IQB27FW

REF	PART#	DESCRIPTION
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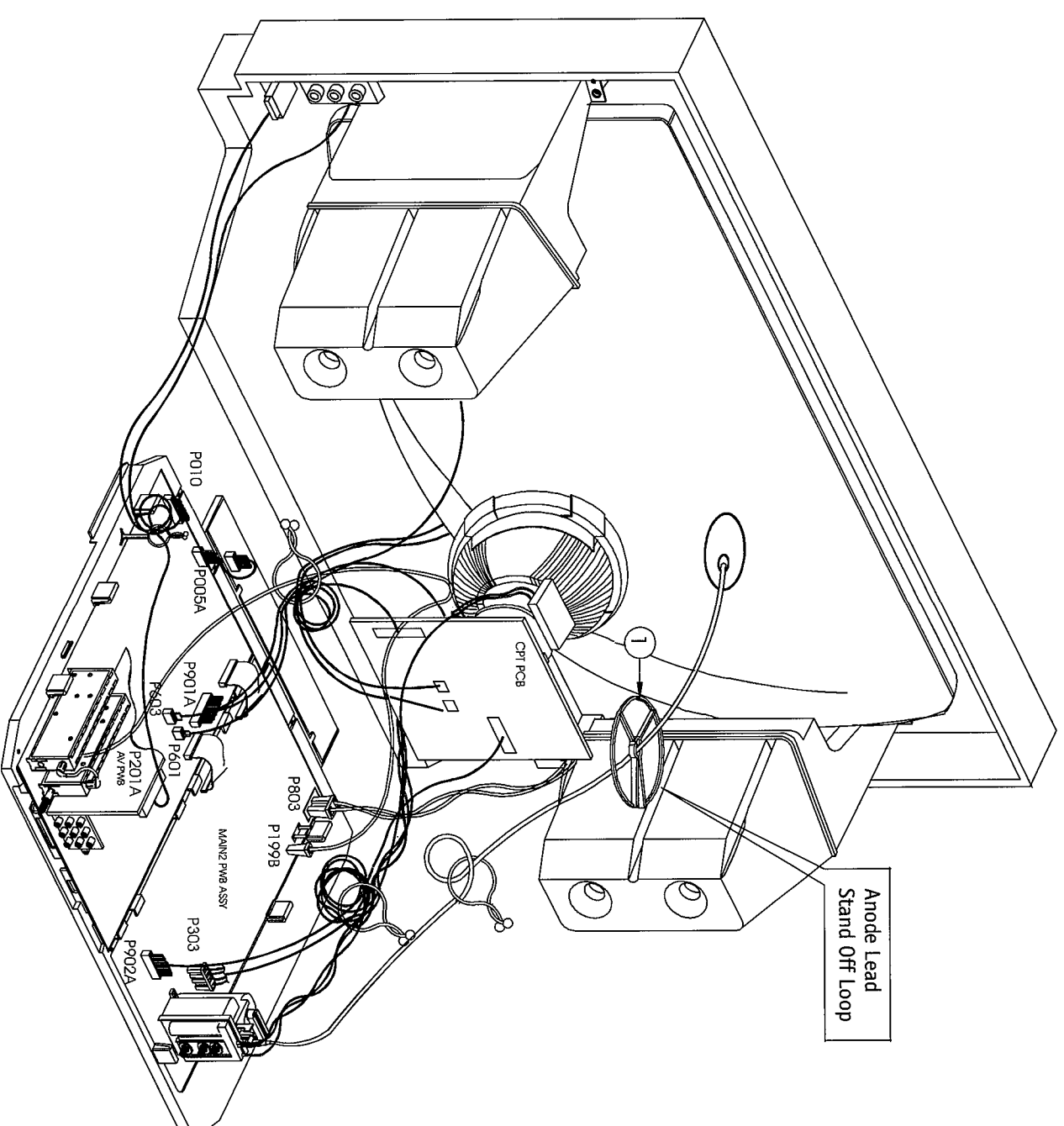
Critical safety components are identified by the letter "X" in their component designators and are shaded. Replace only with part numbers specified.

27W BLOCK DIAGRAM



CRITICAL SAFETY COMPONENTS ARE IDENTIFIED BY THE LETTER "X" IN THEIR COMPONENT DESIGNATORS. REPLACE ONLY WITH PART NUMBERS SPECIFIED.

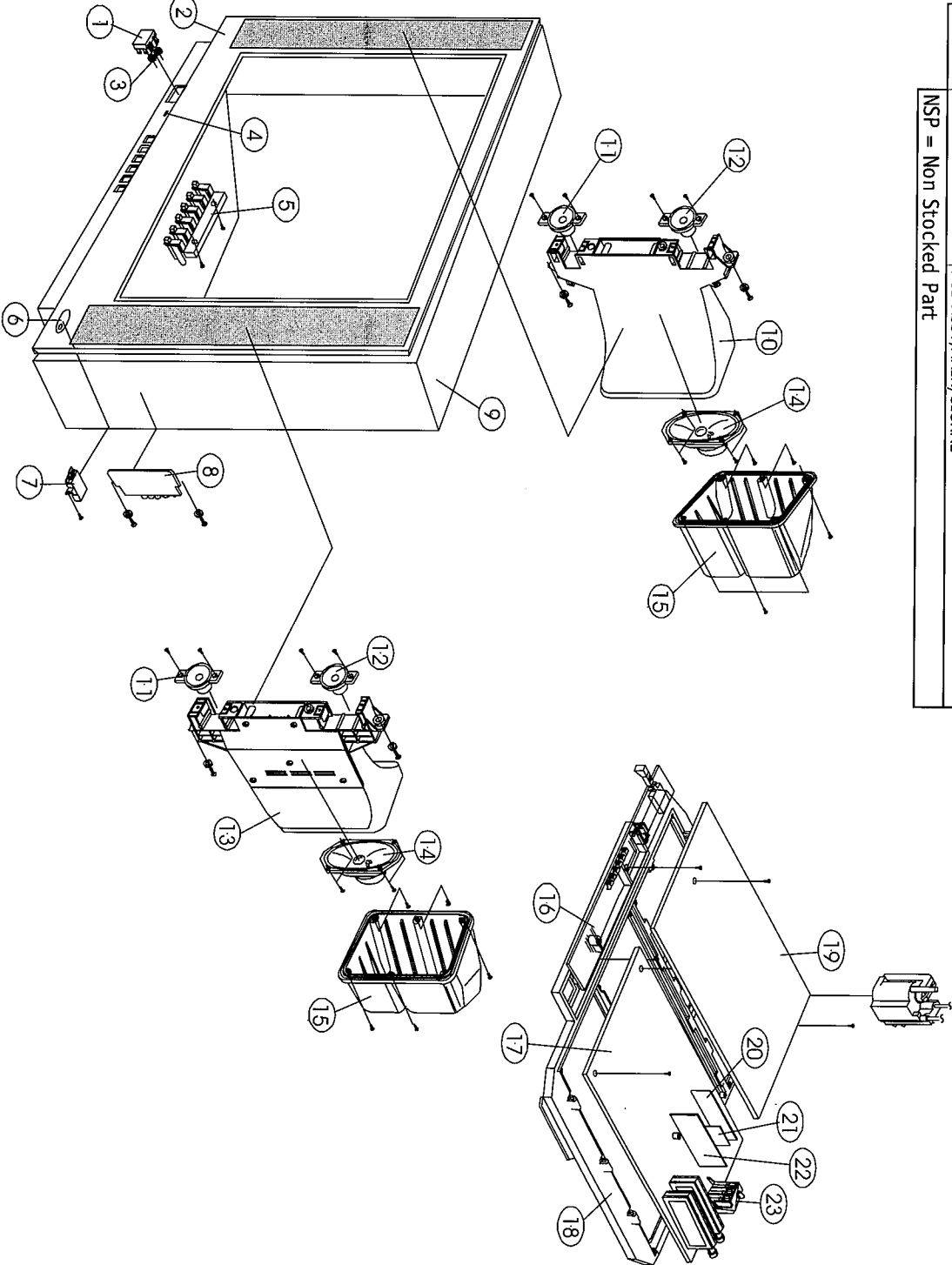
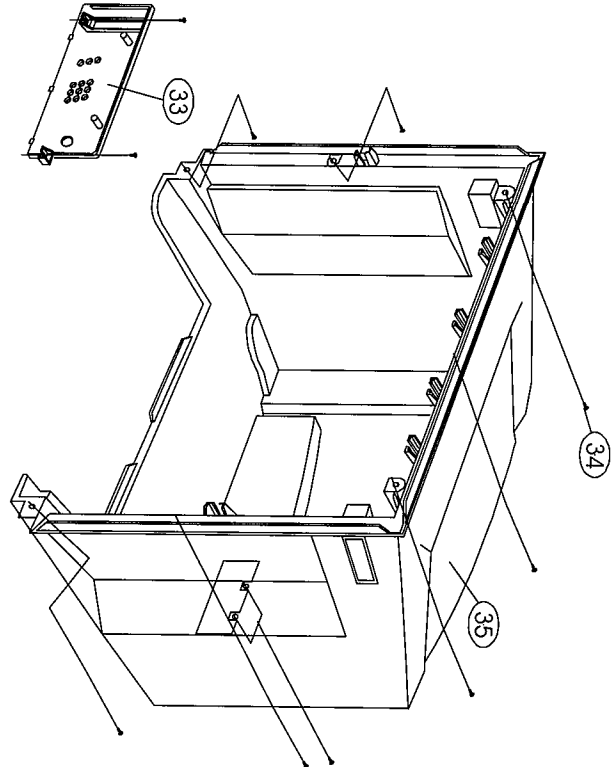
27W WIRING DIAGRAM



CRITICAL SAFETY COMPONENTS ARE IDENTIFIED BY THE LETTER "X" IN THEIR COMPONENT DESIGNATORS. REPLACE ONLY WITH PART NUMBERS SPECIFIED.

27W EXPLODED VIEW

NUM.	PART NUM.	DESCRIPTION
1	959-10089	BUTTON,POWER
2	857-10280	FRAME ASSY
3	NSP	SPRING,COIL
4	NSP	INDICATOR,LED
5	959-10090	BUTTON,CONTROL
6	PART OF #9	WINDOW ASSY
7	905-10446	CY.YE. SENSOR MODULE
8	809-10373	PCB ASSY,SIDE A/V
9	814-10020	CABINET ASSY
10	812-10094	BRACKET,SPEAKER(LEFT)
11	849-10021	SPEAKER,GENERAL 8 OHM 15W
12	849-10021	SPEAKER,TWEETER 8 OHM 10
13	812-10093	BRACKET,SPEAKER(RIGHT)
14	849-10025	SPEAKER,GENERAL 8 OHM 15W
15	824-10090	COVER,SPEAKER
16	809-10374	PCB ASSY,CONTROL
17	809-10371	PCB ASSY,MAIN/SIGNAL



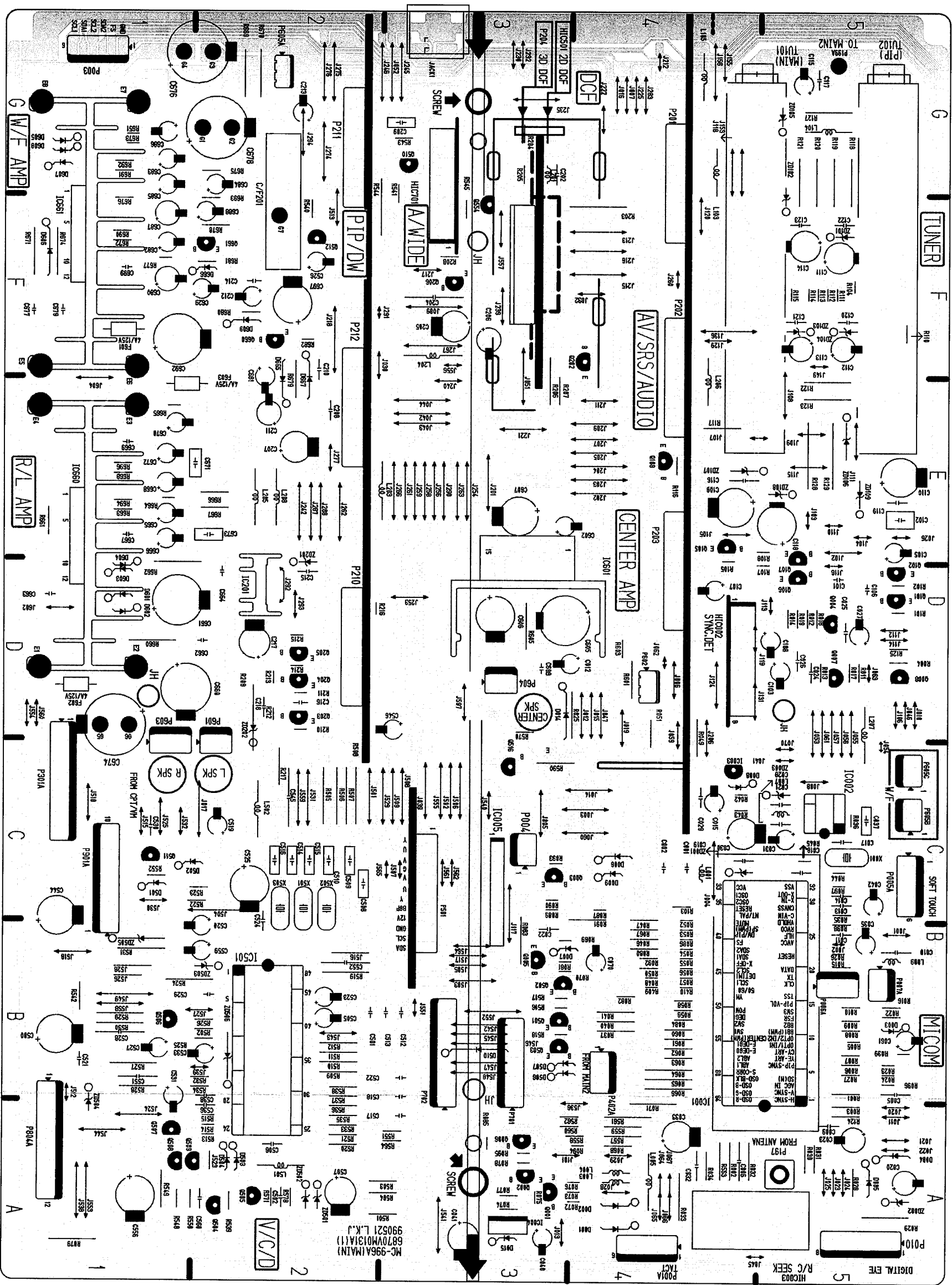
NUM.	PART NUM.	DESCRIPTION
18	812-10091	BRACKET,MAIN
19	809-10370	PCB ASSY,MAIN2/H.V. DEFLECTION
20	809-10377	PCB ASSY,A/V
21	809-10376	PCB ASSY,DCF
22	809-10375	PCB ASSY,PTP
23	844-10055	JACK,A/V
24	900-10028	BARE CPT ASSY
25	811-10023	POWER CORD,UL L=250 W/HOLD,HOUSING POWER
26	NSP	HOLDER,D-COIL
27	NSP	SCREW ASSY,HEXAGON HEAD(L:40, D:1.8)
28	820-10271	COIL,DEGAUSSING, CU 290 60T 8.7OHM
29	895-10086	DY,DC29SL,FL1
30	822-10007	CPT EARTH
31	809-10372	PCB ASSY,CPT
32	878-10015	SOCKET,CPT PCS701A
33	812-10092	BRACKET,REAR A/V
34	NSP	SCREW,TAP TITE(P) D4 L16
35	814-10093	BACK COVER ASSY

NSP = Non-Stocked Part



CRITICAL SAFETY COMPONENTS ARE IDENTIFIED BY THE LETTER "X" IN THEIR COMPONENT DESIGNATORS. REPLACE ONLY WITH PART NUMBERS SPECIFIED.

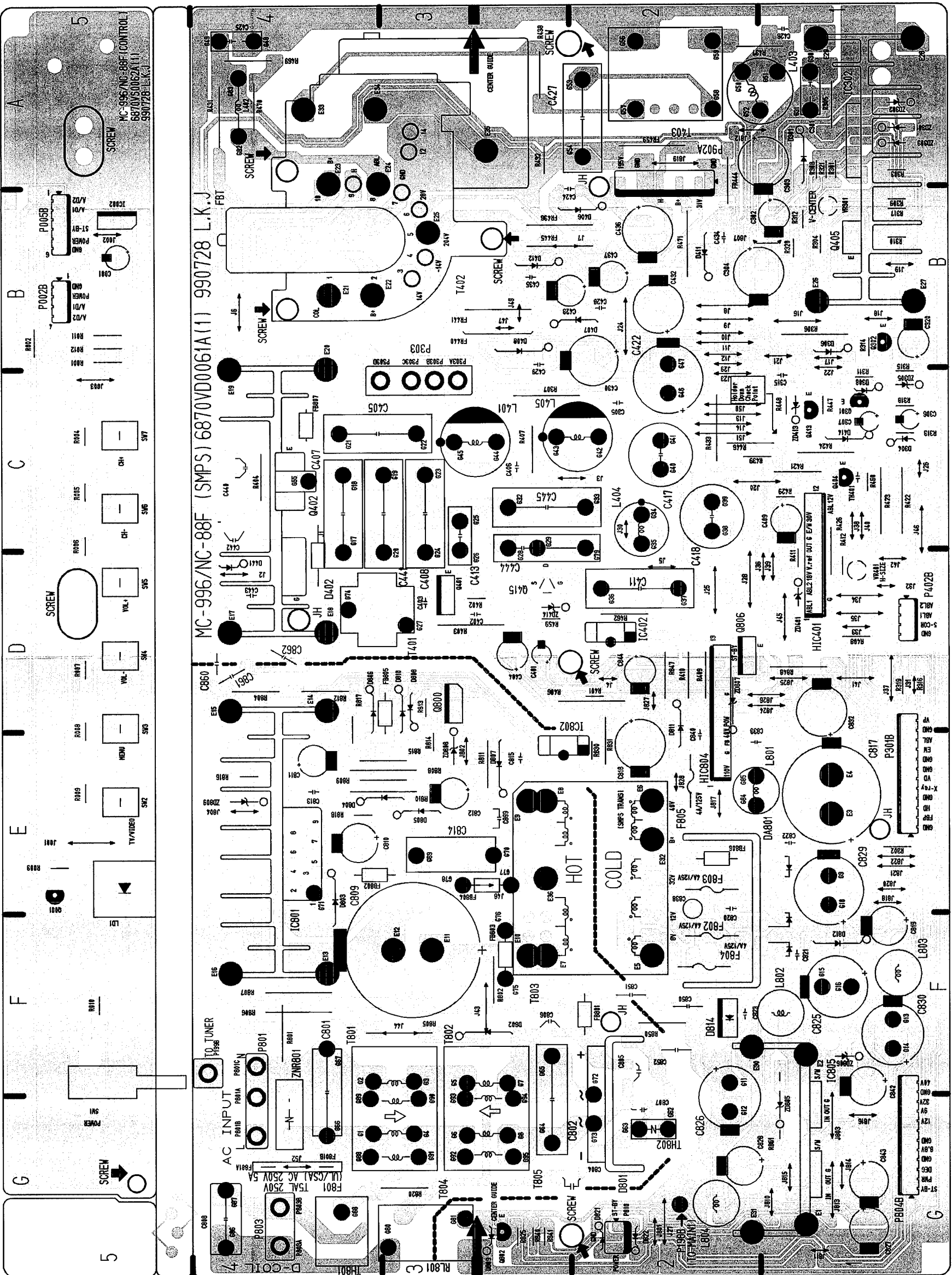
27W MAIN/SIGNAL PCB LAYOUT



CRITICAL SAFETY COMPONENTS ARE IDENTIFIED BY THE LETTER "X" IN THEIR COMPONENT DESIGNATORS. REPLACE ONLY WITH PART NUMBERS SPECIFIED.

ALL SYMBOLS WITH "W" ON END OF DESIGNATOR INDICATE SURFACE MOUNTED COMPONENT

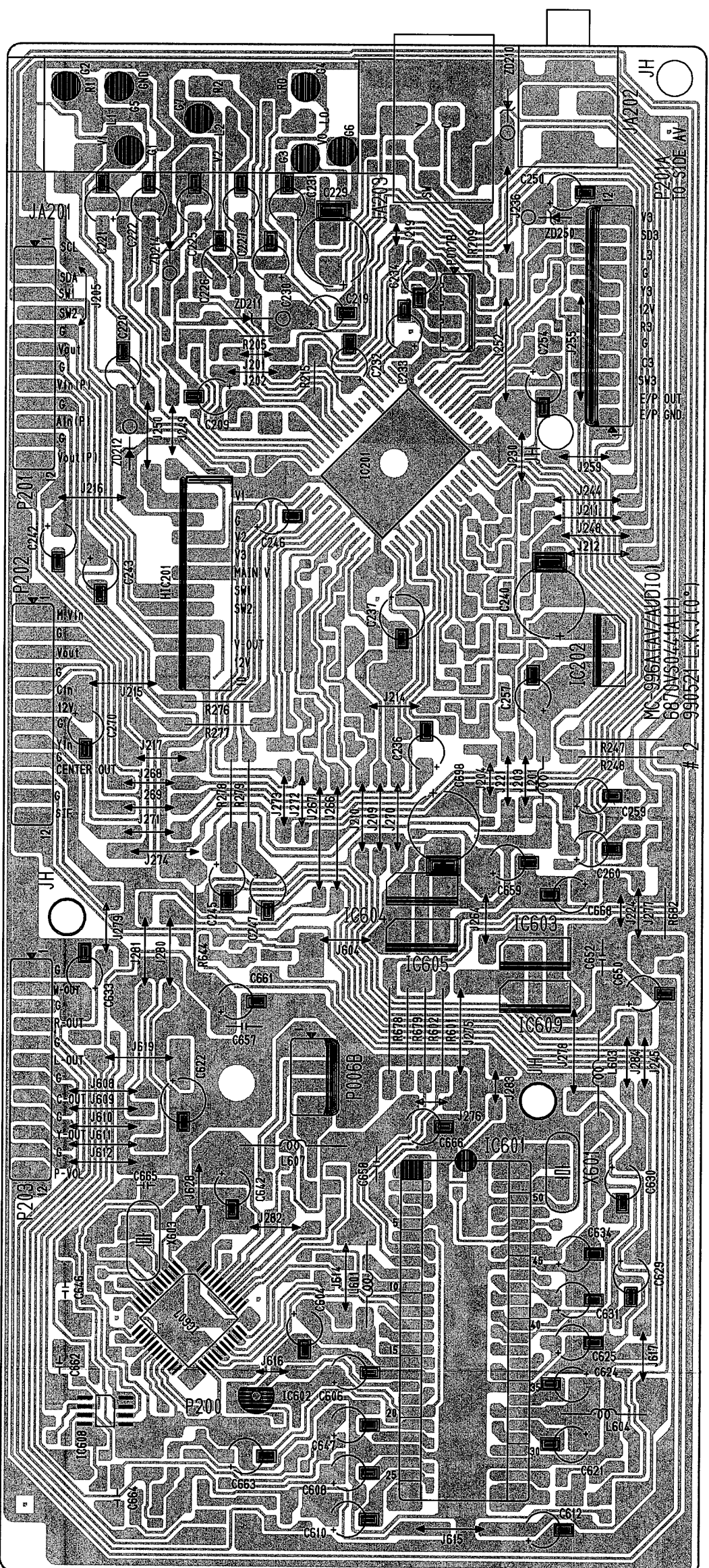
27W MAIN2/HIGH VOLTAGE DEFLECTION PCB LAYOUT



CRITICAL SAFETY COMPONENTS ARE IDENTIFIED BY THE LETTER "X" IN THEIR COMPONENT DESIGNATORS. REPLACE ONLY WITH PART NUMBERS SPECIFIED.

ALL SYMBOLS WITH "W" ON END OF DESIGNATOR INDICATE SURFACE MOUNTED COMPONENT

27W AUDIO PCB LAYOUT

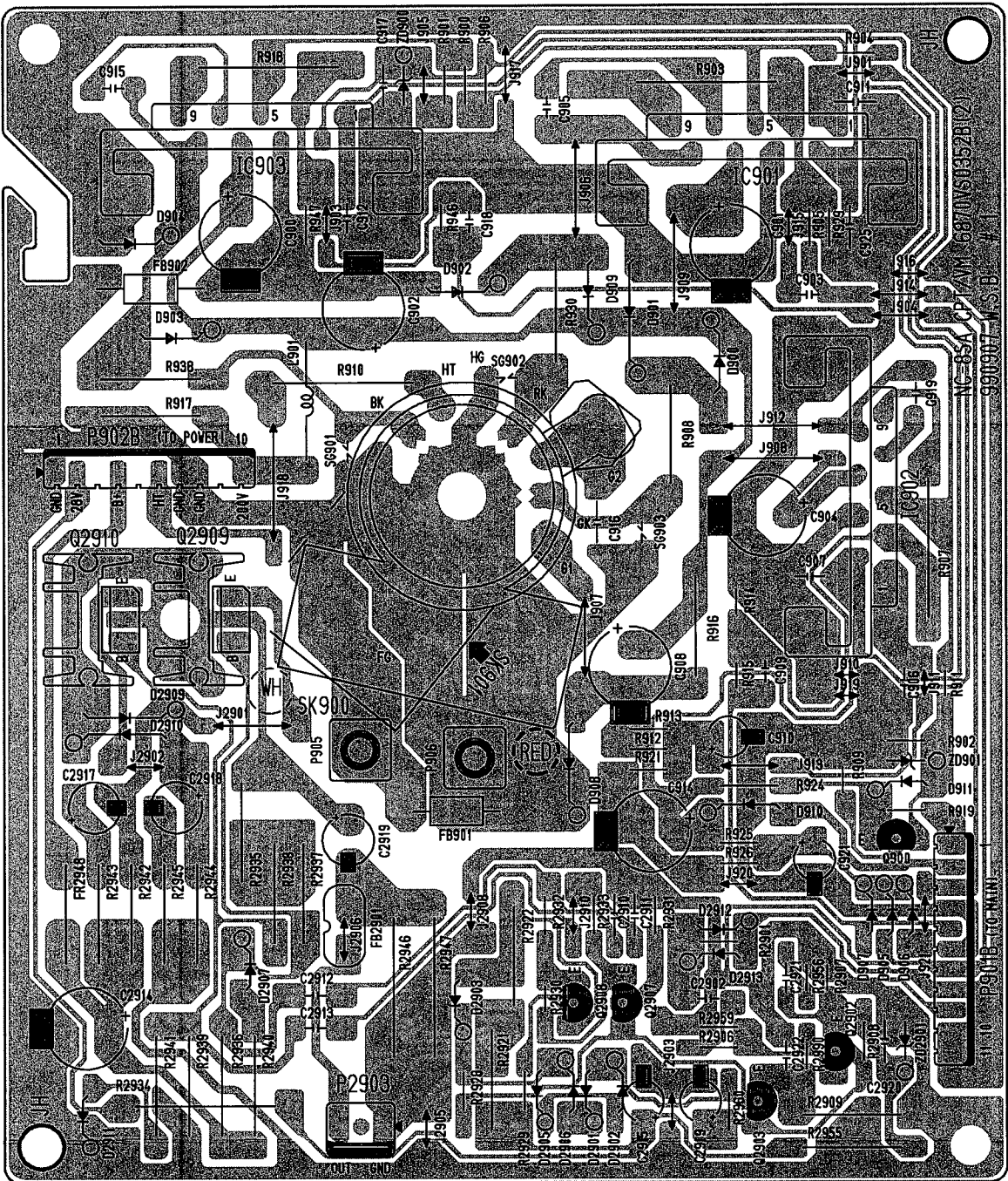


CRITICAL SAFETY COMPONENTS ARE IDENTIFIED BY THE LETTER "X" IN THEIR COMPONENT DESIGNATORS. REPLACE ONLY WITH PART NUMBERS SPECIFIED.

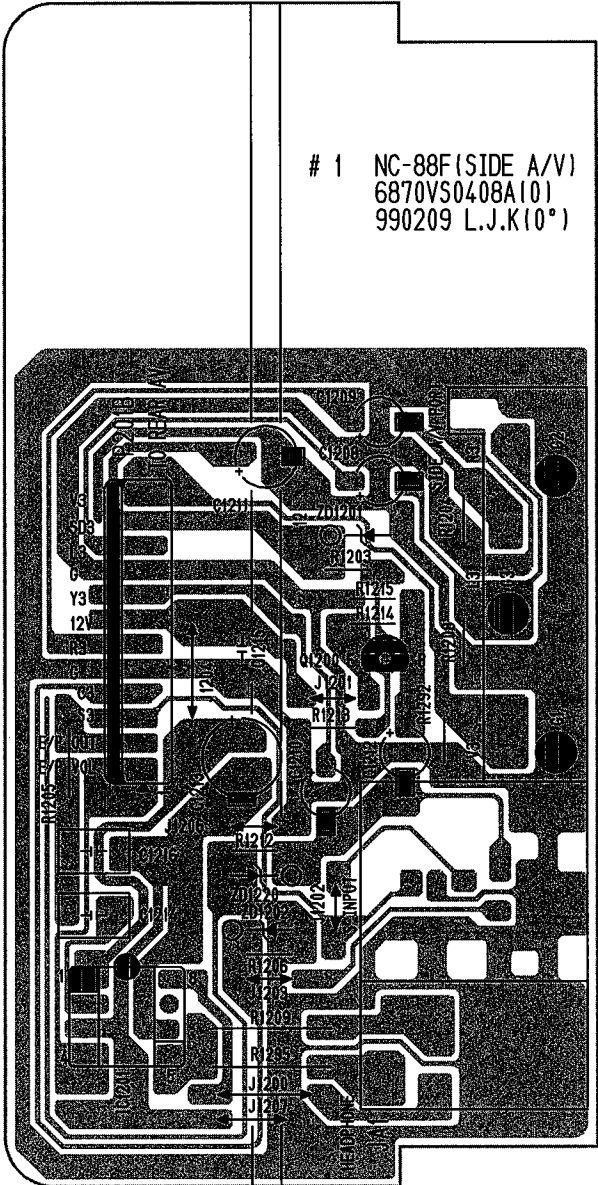
ALL SYMBOLS WITH "M" ON END OF DESIGNATOR
INDICATE SURFACE MOUNTED COMPONENT

27W CRT/CPT & SIDE A/V PCB LAYOUT

CRT/CPT



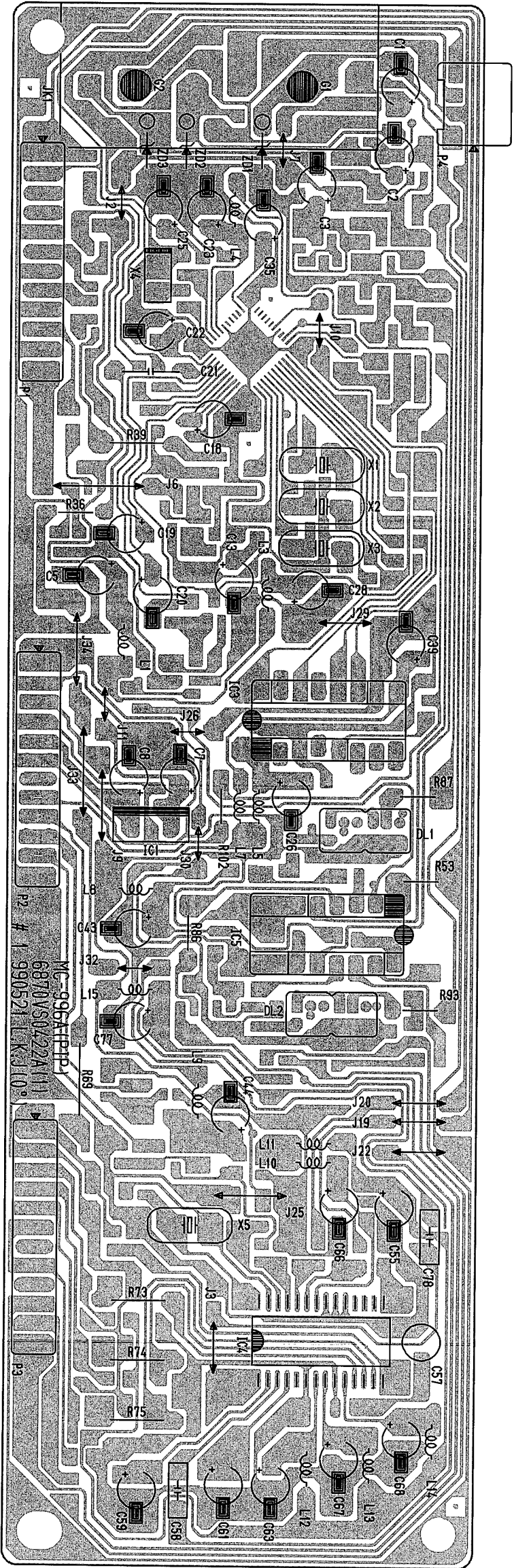
Side A/V



CRITICAL SAFETY COMPONENTS ARE IDENTIFIED BY THE LETTER "X" IN THEIR COMPONENT DESIGNATORS. REPLACE ONLY WITH PART NUMBERS SPECIFIED.

ALL SYMBOLS WITH "W" ON END OF DESIGNATOR INDICATE SURFACE MOUNTED COMPONENT

27W PIP PCB LAYOUT



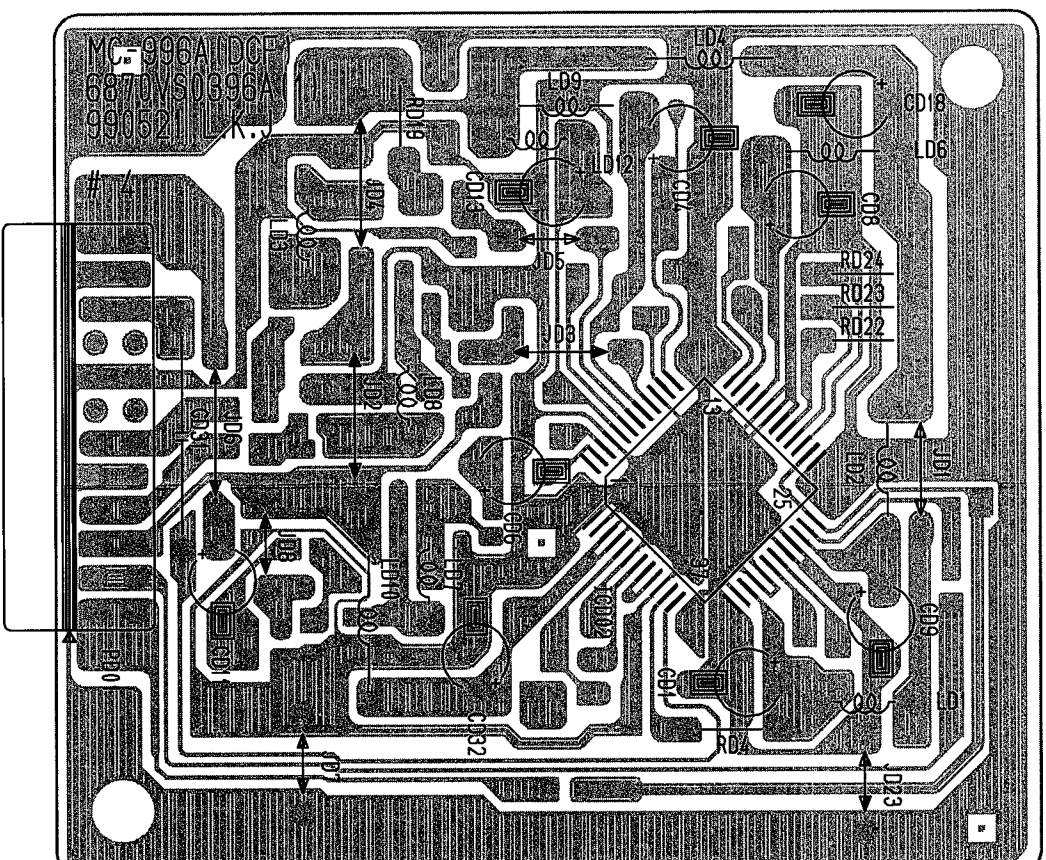
MC-996A PIP
6870VS0422A (1)
P2 # 1 990521 KJ 10°



CRITICAL SAFETY COMPONENTS ARE IDENTIFIED BY THE LETTER "X" IN THEIR COMPONENT DESIGNATORS. REPLACE ONLY WITH PART NUMBERS SPECIFIED.

ALL SYMBOLS WITH "M" ON END OF DESIGNATOR INDICATE SURFACE MOUNTED COMPONENT

27W DCF PCB LAYOUT



CRITICAL SAFETY COMPONENTS ARE IDENTIFIED BY THE LETTER "X" IN THEIR COMPONENT DESIGNATORS. REPLACE ONLY WITH PART NUMBERS SPECIFIED.

9-9

ALL SYMBOLS WITH "M" ON END OF DESIGNATOR
INDICATE SURFACE MOUNTED COMPONENT

MC-996 PCB LAYOUTS

zenith 